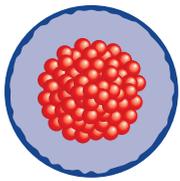




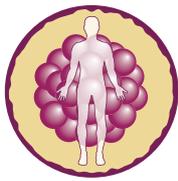
The benchmark in protein purity



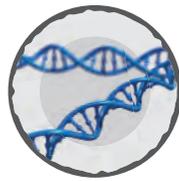
*Premium supplier of autoantigens,
neutrophil markers, antibodies and reagents*



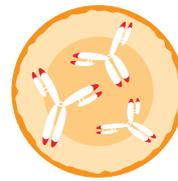
Native Animal
Antigens



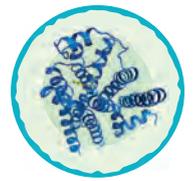
Native Human
Antigens



Recombinant
Antigens



Antibodies



Reagents
& Services





Photo: Rob Suisted - Wellington, New Zealand

WHO WE ARE

AROTEC Diagnostics has been producing and supplying premium reagents to the diagnostics industry since 1996. Today, we are continuing this tradition as the benchmark supplier by expanding into new disease areas, including critical components for diagnostics research, development and manufacturing partners.

Since AROTEC's inception we have undertaken a concerted effort to produce both established and novel autoantigen reagents for the autoimmune diagnostics market. Stringent quality management procedures with a key emphasis on process control and continual improvement has enabled us to offer consistent and reliable products to our global customers, confirming AROTEC as a trusted supplier for leading diagnostic companies.

We are now working to actively grow our portfolio through the development of new antigens from native and recombinant sources. With the addition of antibodies and reagents, AROTEC will offer a comprehensive autoimmune diagnostic panel. Significant investments in our facility and technologies have helped to expand our research and development capabilities as we look to move into other disease state areas.

Our future goals are to deliver the same quality products you have come to expect from AROTEC across these disease states areas, as well as providing key reagents for your diagnostics research and manufacturing needs.

WHAT WE DO

AROTEC is a practical, hands-on scientific company with over 75% of our staff coming from a biochemistry or biotechnology background. We are experts in protein purification, which has allowed us to master complex purification processes and produce premium diagnostic reagents from analytical to bulk scale. Carrying out continuous in-process testing using an array of analytical proteomic techniques, we maintain stringent process control resulting in minimal lot-to-lot variability and a final product that conforms to our product specifications batch after batch.

We believe there is no compromising when it comes to quality. To purify quality reagents it is necessary to start with quality raw materials; autoantigens purified from animal tissue are from animals of exclusively New Zealand origin, the premium source material. Human blood fractions are obtained from certified New Zealand blood centres with complete donor traceability and serology. All recombinant antigens are manufactured in-house under strict quality controls. Our commitment to quality is no more evident than in our extensive range of purified autoantigen reagents.

WHAT WE OFFER

At our current location we are within easy reach of Wellington International Airport. This means our products can reach a number of important international hubs from our facility within 24 hours (Sydney, Los Angeles, Singapore). All of our products are shipped on dry-ice ensuring their integrity throughout transit.

We operate distribution centres in the US and Germany with weekly deliveries scheduled to all of our customers in Europe and the US. Our technical sales managers are on hand to provide all the support you require for your production and R&D needs. Outside the US and Europe we have a strong network of well-established distributors who can support your business. Please visit our website for AROTEC Distributor contact information.

Our pilot sample testing and reservation policy offers you long term security of lot availability and minimizes the need

for regular validation within your production environment. We are delighted to supply product performance and application data to our customers. Our responsive team will ensure we deal with any queries in regards to our products in a timely and efficient manner.

At AROTEC we can also offer customised products such as different buffer conditions, concentrations or specifications depending on your workflow. We are open to developing novel antigens or antibodies as well as offering premium reagents specific to your IVD or research needs.

Feel free to contact us with your project requests.

AROTEC Diagnostics understands that security of supply and consistent quality of key components are vital to your business. We are committed to meeting these needs.



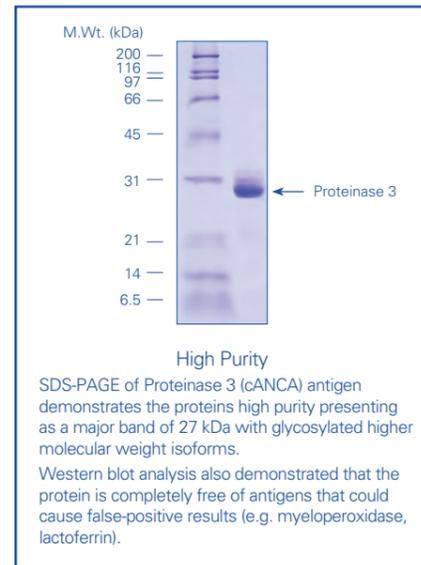
OUR PRODUCT STANDARDS

At AROTEC we believe that there is no compromising when it comes to quality. To purify quality protein reagents it is necessary to start with quality raw materials;

1. Animal sourced antigens are certified as exclusively of NZ origin, considered globally as the premium sourced material.
2. Human sourced antigens are obtained from regulated donor centres within New Zealand.
3. Recombinant products are produced entirely at our facility under stringent quality controls from fermentation through to final purification.

PURITY

AROTEC autoantigens are highly pure (minimum specification >90% pure but often approaching >99% pure). We achieve this through meticulous "polishing" of the final product using high-resolution chromatographic techniques. This results in the virtual absence of contaminating substances thereby ensuring that assays developed using our reagents have very low background.

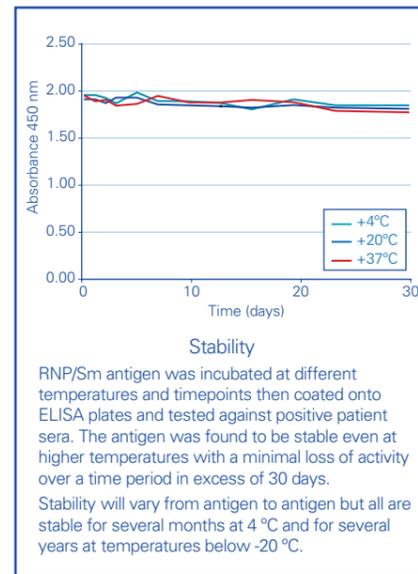


BULK VOLUME

We can produce autoantigen lots from analytical (a few milligrams) to bulk (approaching grams) amounts. Large lot sizes eliminate the need for customers to continuously qualify new lots during production. Product lots can be reserved for established customers and held under storage in our facility in New Zealand or at our distribution centres.

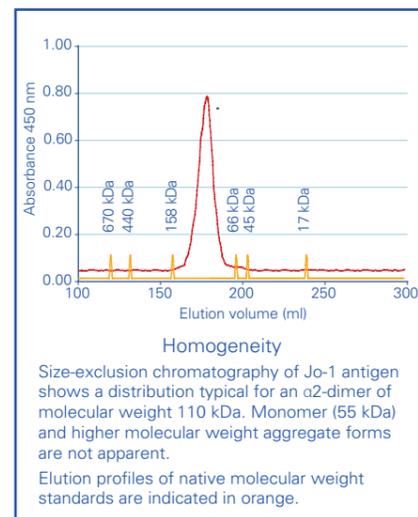
STABILITY

AROTEC autoantigens exhibit outstanding stability and show no significant loss of activity over several years when stored appropriately.



HOMOGENEITY

Homogenous autoantigen aggregation states are essential for many immunoassay applications. Native source materials ensure that authentic multimeric and quaternary structures are maintained and inappropriate protein aggregation is avoided.



AUTHENTIC STRUCTURE

Use of native source materials wherever possible ensures correct post-translational processing, tertiary and quaternary structure (essential for detection of conformation-dependent autoantibodies). Autoantigens purified from human neutrophils are the ultimate in authentic autoantibody targets; autoantigens prepared from animal source materials not only have authentic structure, they also have an extremely high degree of primary sequence homology to their human counterparts.

Sm D1 autoantigen			
HUMAN	MKLVRFMLKLSHETVTIIELENGTQVHGTTIGVDVSMNTHL	040	
BOVINE	MKLVRFMLKLSHETVTIIELENGTQVHGTTIGVDVSMNTHL	040	
HUMAN	KAVKMTLNREPVQLETLSIRGNIRYFILPDSLPLDTLL	080	
BOVINE	KAVKMTLNREPVQLETLSIRGNIRYFILPDSLPLDTLL	080	
HUMAN	VDVEPKVSKKREAVAGRGRGRGRGRGRGRGRGRGRGR	119	
BOVINE	VDVEPKVSKKREAVAGRGRGRGRGRGRGRGRGRGRGR	119	

■ Amino acid identity maintained (no substitution)
■ Amino acid identity not maintained

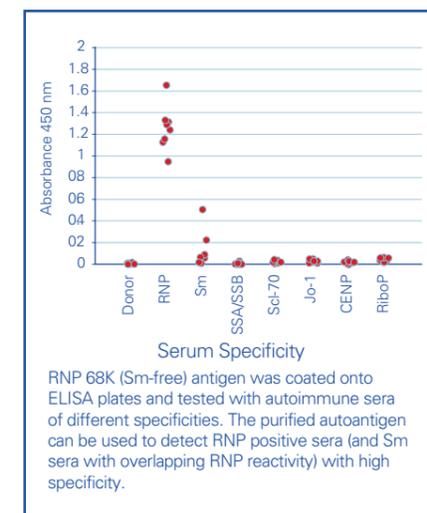
Primary Sequence Homology
Primary amino acid sequences for Sm D1 antigen from human and bovine are aligned. Amino acids that are identical between species are highlighted in blue, showing that the identical sequence is retained over the entire 119 amino acids. Sequence homology has been shown for all the other AROTEC ENA antigens prepared from bovine thymus to be either identical or highly homologous to human sequences.

PATENT IMMUNITY

Investigators planning to use recombinant autoantigens in a commercial situation will need to consider that many stages of recombinant protein production and application are subject to patent protection. Native autoantigens are prepared using proprietary technology that does not expose the end user to patent issues.

SPECIFICITY

High purity ensures high specificity. Active immunoadsorption procedures to remove potentially interfering components where necessary, followed by rigorous quality control, ensures that AROTEC autoantigens are free of other proteins that might lead to false positive results.

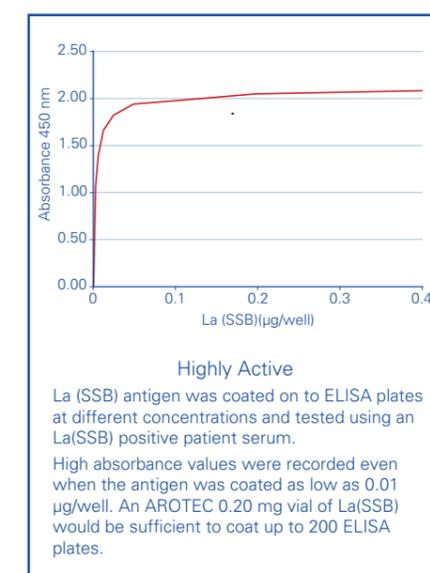


AVAILABILITY

Except under exceptional circumstances we maintain high inventory levels of our complete product range thereby ensuring prompt delivery. Pilot samples from multiple lots can be supplied to established customers, for evaluation and qualification.

ACTIVITY

AROTEC autoantigens are highly active and can be used to detect autoantibodies in ELISA even when coated at low concentrations (typically 10-100 ng/well is sufficient). Linear and conformation-dependent autoantibody epitopes are detected with high sensitivity.

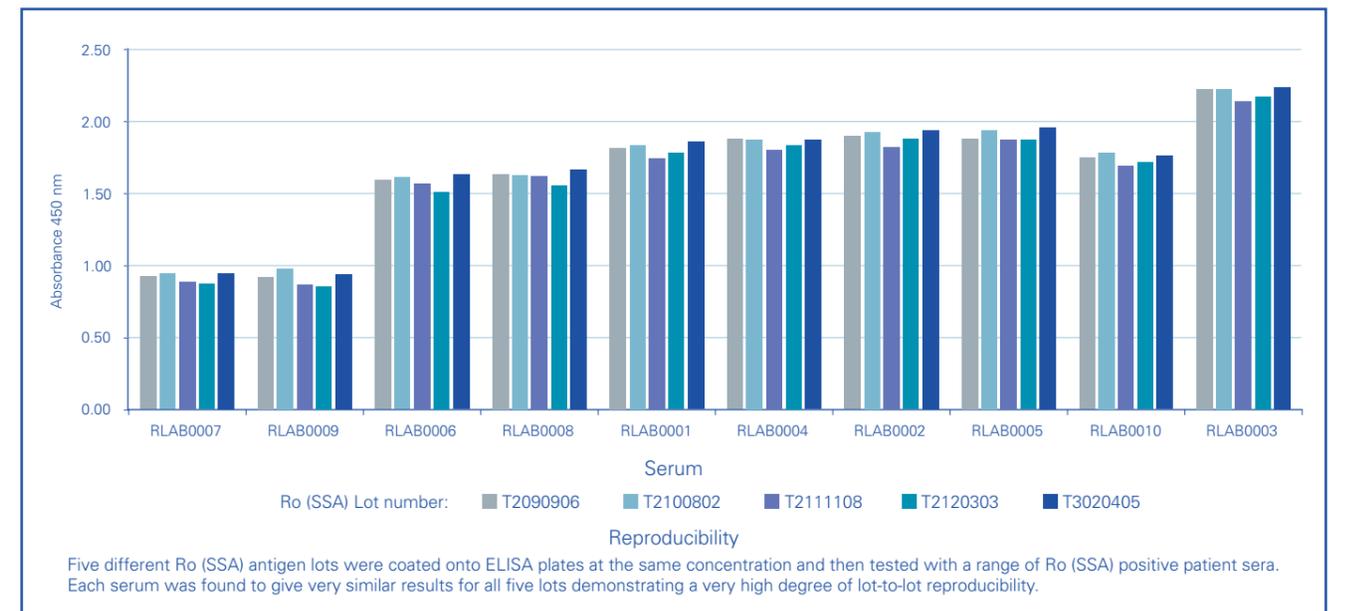
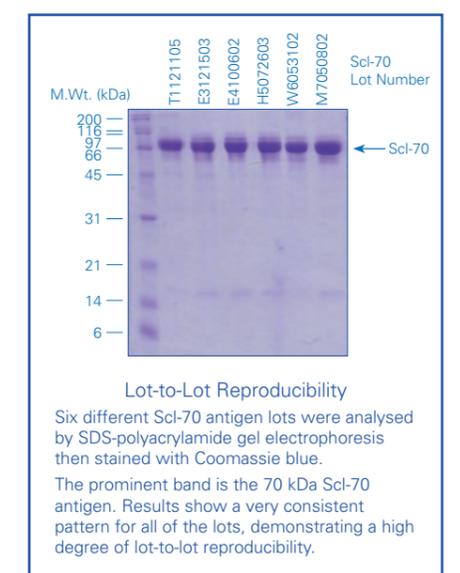


VALUE

Excellent quality doesn't mean that a product is unaffordable! AROTEC will make every effort to supply to you at competitive prices. We can offer package pricing or bundle deals.

REPRODUCIBILITY

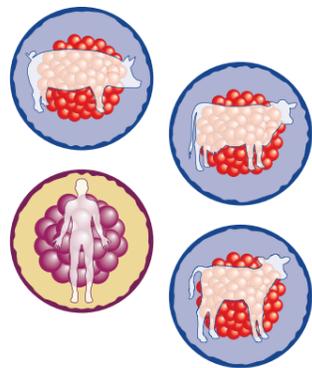
Lot-to-Lot consistency is our strength. Strictly qualified native raw materials provide a completely reproducible source material. Validated, mature production processes that are subject to continuous in-process quality control yield consistently high end-product purity. New lots are rigorously tested and compared to internal gold-standard lots to ensure they conform to specifications.



OUR FACILITY

AROTEC operates out of a brand new purpose built facility located in Lower Hutt, Wellington, New Zealand. Our laboratories are spacious, modern and entirely dedicated to the production of diagnostic reagents. Operations within our facility are incorporated into a formal quality management system registered to ISO9001:2008 standards. We offer complete traceability from raw material to end product which undergoes regular independent auditing.

All critical temperature controlled areas are monitored 24/7 and logged ensuring all product is maintained at optimal temperatures during manufacturing and storage.



Our production facility has an impressive array of protein purification equipment maintained and managed through an extensive calibration and preventative maintenance program, ensuring a robust production environment. This allows us to achieve large-scale outputs of key products on a consistent basis.

EXPERTISE

We are purification experts with a team of scientists possessing advanced protein purification skills allowing us to master complex purification processes from analytical to bulk scales at an extremely high level of purity.

Utilising an array of protein analytical techniques we carry out continuous in-process analysis during our purification process to ensure maximum control and final product specifications are delivered upon.

With an extensive range of immunological and molecular biological techniques at our disposal we are ready to tackle the most ambitious projects.

PRODUCTS OF NEW ZEALAND ORIGIN

Internationally, New Zealand has been recognised as the world's premier source of animal sera and animal protein products by the biotechnology industry. This is in part due to New Zealand's geographical and biological isolation along with strict border security and agricultural restrictions.

Access to export markets has been core to ensuring customers globally have chosen our company as their primary source of proteins. With New Zealand's disease free status, our products comply with most countries importation requirements providing this ease of access.

The Ministry for Primary Industries (MPI) is the regulatory authority governing New Zealand's stringent regulations and they are responsible for actively monitoring animal pest and diseases status. MPI provides trusted assurances to importing countries that our products meet their requirements.

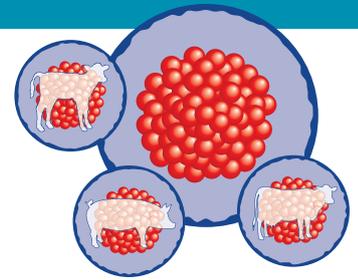
New Zealand is classified as being free from List A of animal diseases by the office International des Epizooties (OIE) as well as being recognised by the USDA-APHIS for the non-existence of Bovine Spongiform Encephalopathy (BSE), foot-and-mouth disease, scrapie and numerous other significant animal diseases.

All material for production of human derived native antigens are sourced from reputable donor centres offering full serological testing and traceability back to individual donors.



AROTEC Diagnostics; reproducibly pure products offering you a consistent and reliable partner.





NATIVE ANTIGENS - ANIMAL DERIVED

GBM

Goodpasture antigen,
Collagen type IV NC1 domain

Source: Bovine Kidney
Uniprot ID: Q28084

ORDERING INFORMATION

ATG02-02 0.20mg
ATG02-10 1.0mg

Jo-1

Histidyl tRNA synthetase, HisRS,
Histidine tRNA ligase

Source: Calf Thymus
Uniprot ID: Q2K184

ORDERING INFORMATION

ATJ01-02 0.20mg
ATJ01-10 1.0mg

Mitochondrial

Pyruvate dehydrogenase complex

Source: Bovine Heart Muscle
Uniprot ID: P11180 P22439 P11966 Q9N1X8

ORDERING INFORMATION

ATM02-02 0.20mg
ATM02-10 1.0mg

Parietal cell antigen (H/K-ATPase)

H/K-ATPase

Source: Porcine Gastric Mucosa
Uniprot ID: P19156 P18434

ORDERING INFORMATION

ATP01-02 0.20mg
ATP01-10 1.0mg

RNP-A (Sm-free)

U1 snRNP A subunit

Source: Calf Thymus
Uniprot ID: Q2KIR1

ORDERING INFORMATION

ATR06-02 0.20mg
ATR06-10 1.0mg

Histone (H1-Enriched)

Histone H1,H2A,H2B,H3 and H4

Source: Calf Thymus
Uniprot ID: please see website

ORDERING INFORMATION

AHB01-02 0.20mg
AHB01-10 1.0mg

La(SSB)

La ribonucleoprotein, SSB antigen,
Sjögren's syndrome antigen B

Source: Calf Thymus
Uniprot ID: P10881

ORDERING INFORMATION

ALA01-02 0.20mg
ALA01-10 1.0mg

Nucleosome

Core histones (H2A, H2B, H3, H4)
and DNA (approximately 146 bp)

Source: Calf Thymus
Uniprot ID: P0C0S4 A5D7N2 Q5E9F8 P62803

ORDERING INFORMATION

ATN02-02 0.20mg
ATN02-10 1.0mg

RNP-Sm

U1 snRNP antigen

Source: Calf Thymus
Uniprot ID: please see website

ORDERING INFORMATION

ATR01-02 0.20mg
ATR01-10 1.0mg

RNP-68K (Sm-free)

U1 snRNP 68K subunit, U1 snRNP 70K subunit

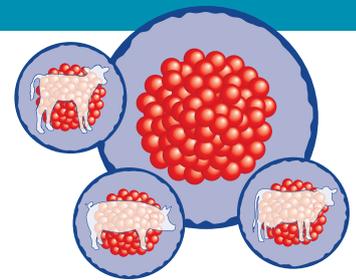
Source: Calf Thymus
Uniprot ID: Q1RMR2

ORDERING INFORMATION

ATR04-02 0.20mg
ATR04-10 1.0mg

AROTEC Products are of New Zealand Origin Unless Otherwise Stated

BULK QUANTITIES AVAILABLE



NATIVE ANTIGENS - ANIMAL DERIVED

Ro(SSA)

Ro RNP, SSA antigen, Ro60 antigen,
Sjögren's syndrome antigen A

Source: Calf Thymus

Uniprot ID: F1MIZ7

ORDERING INFORMATION

ATR02-02 0.20mg

ATR02-10 1.0mg

Scl-70

DNA topoisomerase I, TOP I

Source: Calf Thymus

Uniprot ID: F1MN93

ORDERING INFORMATION

ATS01-02 0.20mg

ATS01-10 1.0mg

Sm

Smith antigens, nRNP D subunit

Source: Calf Thymus

Uniprot ID: Q3ZC10 Q3SZF8 F1MZ00

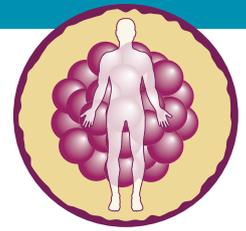
ORDERING INFORMATION

ATS02-02 0.20mg

ATS02-10 1.0mg

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BULK QUANTITIES AVAILABLE



NATIVE ANTIGENS - HUMAN DERIVED

Beta-2-Glycoprotein 1

Apolipoprotein H, APOH, activated protein C-binding protein, APC inhibitor

Source: Human Plasma

Uniprot ID: P02749

ORDERING INFORMATION

ATG01-10 1.0 mg

Calprotectin

Protein S100, Calgranulin, migration inhibitory factor-related protein

Source: Human Leukocytes

Uniprot ID: P06702, P05109

ORDERING INFORMATION

ATC04-02 0.20 mg

ATC04-10 1.0 mg

Elastase

Human leukocyte elastase, HLE, Elastase 2

Source: Human Neutrophils

Uniprot ID: P08246

ORDERING INFORMATION

ATE01-02 0.20 mg

ATE01-10 1.0 mg

Rheumatoid factor antigen

Human IgG Fc fragment

Source: Human Plasma

Uniprot ID: N/A

ORDERING INFORMATION

ATF01-10 1.0 mg

Proteinase 3 (cANCA)

Myeloblastin, p29, AGP7

Source: Human Neutrophils

Uniprot ID: P24158

ORDERING INFORMATION

ATP02-02 0.20 mg

ATP02-10 1.0 mg

BPI

Bacterial/permeability-increasing protein, CAP57

Source: Human Neutrophils

Uniprot ID: P17213

ORDERING INFORMATION

ATB01-02 0.20 mg

ATB01-10 1.0 mg

Cathepsin G

CTSG

Source: Human Neutrophils

Uniprot ID: P08311

ORDERING INFORMATION

ATC01-02 0.20 mg

ATC01-10 1.0 mg

Eosinophil Cationic Protein

ECP, Ribonuclease 3, RNase3

Source: Human Eosinophils

Uniprot ID: P12724

ORDERING INFORMATION

ATE03-02 0.20 mg

ATE03-10 1.0 mg

Myeloperoxidase (pANCA)

Myeloperoxidase, pANCA antigen

Source: Human Neutrophils

Uniprot ID: P05164

ORDERING INFORMATION

ATM01-02 0.20 mg

ATM01-10 1.0 mg

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BULK QUANTITIES AVAILABLE



RECOMBINANT ANTIGENS

CENP-B

Major centromere autoantigen B, Centromere protein B

Source: Sf21 cells
Uniprot ID: P07199

ORDERING INFORMATION

ATC02-02 0.20mg
ATC02-10 1.0mg

PCNA

Proliferating cell nuclear antigen, Cyclin

Source: Sf21 cells
Uniprot ID: P12004

ORDERING INFORMATION

ATP03-02 0.20mg
ATP03-10 1.0mg

Tissue Transglutaminase (tTG)

TGM2, Transglutaminase 2, TG2, TGase-C, TGase-H

Source: Sf21 cells
Uniprot ID: P21980

ORDERING INFORMATION

ATT01-02 0.20mg
ATT01-10 1.0mg

Liver Cytosol-1 (LC-1)

Liver cytosol antigen 1, formiminotransferase cyclodeaminase, FTCD

Source: Sf21 cells
Uniprot ID: O95954

ORDERING INFORMATION

ATL04-02 0.20mg
ATL04-10 1.0mg

Ro52

Ro52 antigen

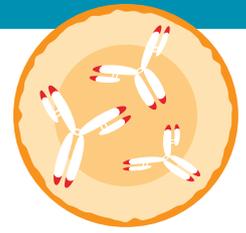
Source: Sf21 cells
Uniprot ID: P19474

ORDERING INFORMATION

ATR05-02 0.20mg
ATR05-10 1.0mg

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BULK QUANTITIES AVAILABLE



ANTIBODIES

Anti-Myeloperoxidase IgG

Protein G purified

Source: Goat

ORDERING INFORMATION

ABM01-10 1.0mg

Anti-Calprotectin IgG

Protein G purified

Source: Goat

ORDERING INFORMATION

ABC04-10 1.0mg

Anti-Calprotectin monoclonal IgG

Protein G purified

Source: Mouse

ORDERING INFORMATION

AMC04-02 0.20mg

AMC04-10 1.0mg

Anti-Proteinase 3 IgG

Protein G purified

Source: Goat

ORDERING INFORMATION

ABP02-10 1.0mg

Anti-Eosinophil Cationic Protein IgG

Protein G purified

Source: Sheep

ORDERING INFORMATION

ABE02-10 1.0mg

AROTEC Products are of New Zealand Origin Unless Otherwise Stated

BULK QUANTITIES AVAILABLE

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Wellington Mail Centre
Wellington 5045
New Zealand

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207 Gracefield Road
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