Providing top quality ISO-9001 manufactured immunological reagents that enable the development of quantitative immunoassays for the detection of biomarkers to serious diseases, especially cardiac disease and diabetes to the global life sciences community.
Advanced ImmunoChemical is a small, woman-owned US bioscience corporation that supplies high quality immunological and biological reagents to the global life sciences research and diagnostic community. Established in 1986, Advanced ImmunoChemical is recognized for offering critical top quality ISO-9001 manufactured immunological reagents to the global IVD research and academic communities. Today we provide products for several clinical areas, including diagnostic biomarkers for various serious diseases. It is the educated and experienced handling of highly characterized immunological reagents that allows for the advancement of clinical diagnostic science and further drug discovery. This is our belief.

DUNS: 806107140
CAGE CODE: 07GN4
NAICS CODE: 325413

CERTIFICATIONS
ISO-9001:2015 Quality Management System
Woman-Owned Small Business

KEY PRODUCTS
Immunological reagents for IVD
- Cardiac Markers
- Metabolic Syndrome
- Molecular Biology
- Tumor Markers
- Influenza A and B
- Veterinary
- Biodefense
- Kidney Disease
- Infectious Diseases
- Microbial and plant toxins

CORE COMPETENCIES
Immunological reagents for In-vitro diagnostics and research. Innovative paths to assay development and research:
Cardiac Disease / Metabolic Syndrome / Hormones / Tumor Markers / Neuroscience / Glycobiology / Blood Coagulation and Anemia / Inflammation / Infectious disease / Biodefense / Veterinary Diagnostics

OUR CUSTOMERS INCLUDE

DIFFERENTIATORS
- Continuous flow ISO-9001 certified new and existing products.
- Technical Support and Posted AssayNotes
- Online Store
- Uncompromising quality extends to full product range.

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PRODUCT CATEGORIES/ Products by Clinical Area

- Polyclonal Antibodies
- Antigens
- Molecular Biology
- Monoclonal Antibodies
- Sera & Plasma
- Biodefense
- Blood Coagulation and Anemia
- Cardiac Markers
- Gangliosides
- Hormones
- Infectious Diseases
- Inflammation
- Kidney Diseases
- Metabolic Syndrome
- Microbial & Plant Toxins
- Neuroscience
- Tumor Markers
- Veterinary
Cardiac Markers

Cardiovascular diseases are a group of disorders that occur in the heart and blood vessels. They are the world’s leading cause of death.

For over 20 years, Advanced ImmunoChemical has been at the forefront of providing critical reagents for cardiovascular diseases diagnostics.

We offer a broad panel of well-characterized antibodies and antigens, as well as analyte depleted serum or plasma products that are suitable for immunoassay development on various platforms.

Continuous investment in research

Cardiac marker research products have always been a key focus of interest at Advanced ImmunoChemical, including Troponin I, proBNP and its derivatives, PAPP-A and IGFBP-4. Our manufacturer’s scientists have either authored or some 30 cardiac marker related articles published in peer reviewed scientific journals. This investment in scientific work has helped develop raw materials that are used by the world’s leading diagnostics companies, as well as IFCC and AACC standardization committees.

• AssayNotes
• Patents
• Articles

NEW PRODUCTS
• Human Lp-PLA2
• BNP MAbs

AdvImmuno.com
Cardiac Markers, continued

Cardiac troponin I

Cardiac troponin I is the gold standard biomarker for diagnosing myocardial infarction. Among numerous monoclonal antibodies developed against troponin I, we have carefully selected 35 for our catalog. We also provide other troponin I related products which include a wide selection of different purified troponin preparations - both native and recombinant. In 2004, our cardiac troponin complex material was chosen as a raw material for the international troponin standard.

Cardiac Marker Products

- Monoclonal antibodies
- Polyclonal antibodies
- Antigens
- Plasma and sera
Metabolic Syndrome
Metabolic Syndrome is a cluster of conditions that increases the likelihood of cardiovascular diseases and diabetes. Risk factors include abdominal obesity, elevated blood pressure, insulin resistance, high blood sugar levels, and abnormal blood cholesterol levels.

At Advanced ImmunoChemical, we provide monclonal antibodies and antigens that enable the development of quantitative immunoassays for the detection of Metabolic Syndrome biomarkers such as adiponectin, insulin and glycated hemoglobin.

Product Support Materials

- Adiponectin AssayNotes
- HbA1c - The Glycated Isoform of Hemoglobin AssayNotes
- Rat C-peptide and Proinsulin AssayNotes
- Metabolic Syndrome Brochure
- Retinol-binding Protein 4 (RBP4) AssayNotes
- Biomarkers for R&D of Type 2 Diabetes and Cardiovascular Diseases
- Biomarkers of Diabetes: antigens and antibodies for the detection of HbA1C, C-peptide and insulin.

Metabolic Syndrome Products

- Monoclonal antibodies
- Antigens

AdvImmuno.com
In Infectious Diseases

In spite of the considerable progress made in diagnostics, therapy, and the prevention of infectious diseases, they remain the second highest cause of death in the world. Infectious diseases continue to be the primary cause of death in the developing countries.

At Advanced ImmunoChemical, we provide antibodies and antigens that enable the development of immunoassays for the detection of infectious disease-causing pathogens. These include products for the detection of the influenza A and B viruses, adenovirus and salmonella, as well as viruses that cause sexually transmitted diseases and hepatitis B.

Product Support Materials

- Calciviridae (norovirus) AssayNotes
- Influenza Virus Types A and B AssayNotes
- Human Papillomavirus (HPV) AssayNotes

Infectious Disease Products

- Monoclonal Antibodies and Antigens
Veterinary Diagnostics

At Advanced ImmunoChemical we offer best-in-class veterinary diagnostics solutions based on scientifically developed products and a clear understanding of the needs of end-users.

In veterinary diagnostics the immunodiagnostic tests utilized are often based on assays that were originally developed for human diagnostics. Our goal is to offer species-specific raw materials that allow for the development of reliable and accurate immunoassays for animals.

Our antibody offering ranges from detecting infectious diseases causing viruses to cardiac markers and hormones. In addition to antibodies, we offer a selection of purified antigens - recombinant and/or native.

Product Support Materials

- Calciviridae (norovirus) AssayNotes
- Canine TSH AssayNotes
- Canine NT-proBNP AssayNotes
- Canine CRP (cCRP) Assaynotes

Infectious Disease Products

- Monoclonal Antibodies and Antigens
**Cardiac Markers**
- Troponin I (TnI)
- Troponin T (TnT)
- Troponin C (TnC)
- Myoglobin
- ProBNP, BNP and NT-proBNP
- Pregnancy-associated plasma protein-A (PAPP-A)
- Insulin-like growth factor binding protein 4 (IGFBP-4)
- Lipoprotein-associated phospholipase A2 (Lp-PLA2)
- Myeloperoxidase (MPO)
- Human serum albumin (HSA)
- Cystatin C
- Retinol-binding protein 4 (RBP4)
- Procalcitonin (PCT) and calcitonin
- Glycogen phosphorylase isoenzyme BB (GPBB)
- Fatty acid binding protein (FABP)
- D-dimer and high molecular weight fibrin degradation products
- Serum amyloid A (SAA)
- C-reactive protein (CRP)
- Soluble lectin-like oxidized LDL receptor (sLOX-1)
- Adiponectin (Adn)
- S100 protein
- Soluble CD40 ligand (sCD40L)

**Blood coagulation & Anemia**
- D-dimer
- Erythropoetin
- Ferritin
- Fibrinogen
- Fibrinopeptide A
- Folic acid
- Human serum albumin (HSA)
- Plasminogen
- Thrombin activatable fibrinolysis inhibitor (TAFI)
- Transferrin
- Transferrin receptor
Metabolic Syndrome

- Adiponectin
- C-peptide, human
- C-peptide, rat
- Ghrelin
- Hemoglobin, human, HbA10
- Hemoglobin, human, glycated, HbA1c
- Insulin-like growth factor binding protein 1 (IGFBP-1)
- Insulin
- Insulin/Proinsulin, rat-mouse
- Leptin
- Proinsulin, human
- Proinsulin, rat
- Retinol-binding protein 4 (RBP4)
- Soluble lectin-like oxidized LDL receptor (sLOX-1)

Kidney Diseases

- Cystatin C
- Human serum albumin (HSA)
- Kidney injury molecule-1 (KIM-1)
- Retinol-binding protein 4 (RBP4)

Fertility and Pregnancy

- Alpha-fetoprotein (AFP)
- Human chorionic gonadotropin (HCG)
- Insulin-like growth factor binding protein 1 (IGFBP-1)
- Mullerian inhibiting substance receptor (MISR)
- Pregnancy-associated plasma protein-A (htPAPP-A and dPAPP-A)

Hormones

- Calcitonin
- Cortisol
- Dopamine
- Erythropoietin
- Follicle stimulating hormone (FSH)
- 17b-estradiol
- Growth hormone (hGH)
- Human chorionic gonadotropin (HCG)
- Insulin-like growth factor binding protein 1 (IGFBP-1)
- Lactoferrin
- Luteinizing hormone (LH)
- Progesterone
- Prolactin
- Testosterone
- Thyroid stimulating hormone (TSH)
- Thyroxine (T4)
- Triiodothyronine (T3)
**Tumor Markers**

Alpha-fetoprotein (AFP)
Angiostatin
CA-125
CA15-3
CA19-9
CA72-4
Carcinoembryonic antigen (CEA)
CYFRA21-1
Erythroblastic leukemia viral oncogene homolog 2 (Erb-2, HER2/neu)
Human epididymis protein 4 (HE4)
Human papillomavirus (HPV)
Insulin-like growth factor binding protein 4 (IGFBP-4)
Insulin-like growth factor binding protein 5 (IGFBP-5)
Mucin-1 glycoprotein (MUC1)
Neuron specific enolase (NSE)
Non-neuronal enolase (NNE)
Prostate-specific antigen (PSA)

**Neuroscience**

Calmodulin
Cu/Zn superoxide dismutase (Cu-Zn-SOD)
Dopamine
Glial fibrillary acidic protein (GFAP)
Heat shock proteins (HSP)
Myelin basic protein (MBP)
Neuron specific enolase (NSE)
Non-neuronal enolase (NNE)
S100 protein

**Gangliosides**

GM1, GM2, GM3, GM4, GD1a, GD1b, GD2, GD3, GG1b, GT1a, GT1b, GD1a-NAcGal
Ganglioside GM1 sphinganine
Globoside

**Immunology and Serology**

IgA, IgE, IgG, IgM
Kappa and lambda chains
Myeloperoxidase (MPO)
Ovine IgG and IgM
Thyroglobulin
Thyroid peroxidase (TPO)
Inflammation
Calcitonin
C-reactive protein (CRP)
Epidermal growth factor (EGF)
Erythropoetin
Interferons
Interleukins
Procalcitonin (PCT)
Serum amyloid A (SAA)
Tumor necrosis factor (TNF), alpha

Infectious Diseases
Influenza A and B
*Mycobacterium tuberculosis*
Other acute respiratory diseases (ARD)
  *Adenovirus*
  *Newcastle disease virus (NDV)*
  *Parainfluenza*
  *Respiratory syncytial virus (RSV)*
Malaria
Foodborne pathogens
  *Adenovirus*
  *Astrovirus*
  *Caliciviridae (norovirus)*
  *Campylobacter jejuni*
  *Helicobacter pylori*
  *Listeria monocytogenes*
  *Rotavirus*
  *Salmonella*
TORCH
  *Cytomegalovirus*
  *Herpes simplex virus*
  *Rubella virus*
  *Toxoplasma gondii*
Hepatitis
Sexually transmitted diseases (STD)
  *Candida albicans*
  *Herpes simplex virus*
  *Human papillomavirus*
Veterinary

Adenovirus
Astrovirus
*Borrelia burgdorferi*
Bovine corona virus
Brucella abortus
*Burkholderia mallei and pseudomallei*
Calmodulin
Canine CRP (cCRP)
Canine distemper virus (CDV)
Canine parvovirus (CPV)
Cortisol
Cystatin C
Foot-and-mouth disease virus (FMDV)
Glyceraldehyde 3-phosphate dehydrogenase (GAPDH)
Infectious bronchitis virus (IBV)
Infectious bursal disease virus (IBDV)
Influenza A H5 and H7
Insulin/Proinsulin
Marek disease virus (MDV)
Newcastle disease virus (NDV)
NT-proBNP, canine
Progesterone
Proinsulin, rat
Rabies virus
Retinol-binding protein 4 (RBP4)
Rotavirus
S100
Serum amyloid A (SAA)
Thyroglobulin, canine
Thyroid stimulating hormone (TSH)
Thyroxine (T4)
Transmissible gastroenteritis (TGE) virus of pigs
Triiodothyronine (T3)
Troponin I
Troponin T

Microbial and Plant Toxins

Aflatoxin
Cholera toxin
*Clostridium botulinum*
Diphtheria toxin
*E. coli* heat labile enterotoxin
Microcystin-LR
Ricin
*Staphylococcus aureus* enterotoxins
Tetanus toxin
Biodefense

*Bacillus anthracis*
Ebola virus
*Francisella tularensis*
Marburg virus
Vaccinia virus
*Yersinia pestis*

Miscellaneous

Chloramphenicol
Coxsackievirus B3
Cyclosporin
Egg white avidin
Fibronectin
FITC
FK 560
Galactosidase-b of E. coli
Glyceraldehyde 3-phosphate dehydrogenase (GAPDH)
Guanylate cyclase, human soluble (hsGC)
His6-tag
Horseradish peroxidase (HRP)
Immunoreactive trypsin (IRT)
Insulin-like growth factor binding protein 4 (IGFBP-4)
Insulin-like growth factor binding protein 5 (IGFBP-5)
Legionella pneumophila
Osteocalcin
Ovine IgG and IgM
Proliferating cell nuclear antigen (PCNA)
Streptavidin from Steptomyces avidinii
Surfeit locus protein-6 (SURF-6)
Western blot sets

Molecular Biology

SmarTaq
Taq Polymerase
Troponin


B-type natriuretic peptide


IGFBP-4 and PAPP-A


Transferrin receptor


**Adiponectin**


**D-dimer**