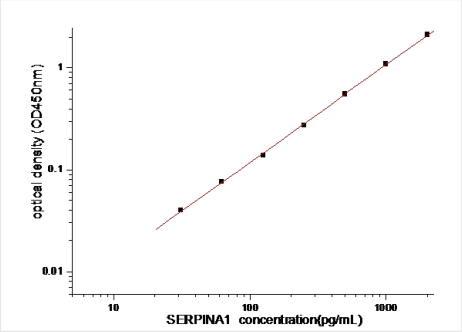
SerpinA1 ELISA Pair

PRODUCT OVERVIEW

Product Name	SerpinA1, ELISA Pair
Full Product Name	SerpinA1 Matched ELISA Antibody Pair Set, Human
Product Gene Name	SerpinA1 elisa pair
Product Synonym Names	Human SerpinA1/A1AT ELISA Pair Set; serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1; A1A Matched ELISA Antibody Pair Set, Human; A1AT Matched ELISA Antibody Pair Set, Human; AAT Matched ELISA Antibody Pair Set, Human; alpha1AT Matched ELISA Antibody Pair Set, Human; MGC23330 Matched ELISA Antibody Pair Set, Human; MGC9222 Matched ELISA Antibody Pair Set, Human; PI Matched ELISA Antibody Pair Set, Human; PI1 Matched ELISA Antibody Pair Set, Human; PRO2275 Matched ELISA Antibody Pair Set, Human; SerpinA1 Matched ELISA Antibody Pair Set, Human
Assay Type	Solid Phase Sandwich ELISA
Detection Range	31.25-2000pg/mL
Sensitivity	31.25pg/ml
Specificity	Quantitative determination of Human SerpinA1
Preparation and Storage	Capture Antibody: Aliquot and store at -20 degree C to -80 degree C for up to 6 months from date of receipt. Avoid repeated freeze-thaw cycles. Detection Antibody: Store at 4 degree C and protect it from prolonged exposure to light for up to 6 months from date of receipt. DO NOT FREEZE! Standard: Store lyophilized standard at -20 degree C to -80 degree C for up to 6 months from date of receipt. Aliquot and store the reconstituted Standard at -80 degree C for up to 1 month. Avoid repeated freeze-thaw cycles.
Materials Provided	1. Capture Antibody 0.5 mg/mL of mouse anti-SERPINA1 monoclonal antibody (in PBS, pH 7.4). Dilute to a working concentration of 1ug/mL in PBS before coating. 2. Detection Antibody 0.2 mg/mL rabbit anti-SERPINA1 monoclonal antibody conjugated to horseradish-peroxidase (HRP) (in PBS, 50 % HRP-Protector, pH 7.4). Dilute to working concentration of 0.4ug/mL in detection antibody dilution buffer before use. 3. Standard Each vial contains 160 ng of recombinant SERPINA1. Reconstitute with 1 mL detection antibody dilution buffer. After reconstitution, store at -20 degree C to -80 degree C in a manual defrost freezer. A seven-point standard curve using 2-fold serial dilutions in sample dilution buffer, and a high standard of 2ng/mL is recommended.

Related Product Information for SerpinA1 elisa pair	SerpinA1, also known as Alpha-1 antitrypsin (AAT), is a prototype member of the Serpin superfamily of the serine protease inhibitors. This serine protease inhibitor blocks the protease, neutrophil elastase. Alpha-1 antitrypsin is mainly produced in the liver and acts as an antiprotease. Its principal function is to inactivate neutrophil elastase, preventing tissue damage. SerpinA1 (alpha1-antitrypsin), an acute phase protein and the classical neutrophil elastase inhibitor, is localized within lipid rafts in primary human monocytes in vitro. Its association with monocytes is inhibited by cholesterol depleting/efflux-stimulating agents (nystatin, filipin, MbetaCD (methyl-beta-cyclodextrin) and oxidized low-density lipoprotein (oxLDL) and conversely, enhanced by free cholesterol. Furthermore, SerpinA1/monocyte association per se depletes lipid raft cholesterol as characterized by the activation of extracellular signal-regulated kinase 2, formation of cytosolic lipid droplets, and complete inhibition of oxLDL uptake by monocytes. Previous population studies have suggested that heterozygote status for the AAT gene (SerpinA1) is a risk factor for chronic rhinosinusitis with nasal polyposis (CRSwNP). Alpha-1 antitrypsin deficiency is a recently identified genetic disease that occurs almost as frequently as cystic fibrosis. It is caused by various mutations in the SerpinA1 gene, and has numerous clinical implications. Alpha-1 antitrypsin deficiency is an inherited disease affecting the lung and liver. In the liver, alpha-1 antitrypsin deficiency may manifest as benign neonatal hepatitis syndrome; a small percentage of adults develop liver fibrosis, with progression to cirrhosis and hepatocellular carcinoma. Its most important physiologic functions are the protection of pulmonary tissue from aggressive proteolytic enzymes and regulation of pulmonary immune processes. This SerpinA1 Matched ELISA Antibody Pair Set, Human is a solid phase sandwich ELISA for quantitative determination of Human SerpinA1. It contains Human SerpinA1 capture antibody, Human SerpinA1 detector antibody (HRP) and a highly purified HEK293-expressed recombinant Human SerpinA1 protein.
Product References and Citations for SerpinA1 elisa pair	Khnlein T, et al. (2008) Alpha-1 antitrypsin deficiency: pathogenesis, clinical presentation, diagnosis, and treatment. Am J Med. 121(1): 3-9.Camelier AA, et al. (2008) Alpha-1 antitrypsin deficiency: diagnosis and treatment. J Bras Pneumol. 34(7): 514-27.Subramaniyam D, et al. (2010) Cholesterol rich lipid raft microdomains are gateway for acute phase protein, SERPINA1. Int J Biochem Cell Biol. 42(9): 1562-70.Kilty SJ, et al. (2010) Polymorphisms in the SERPINA1 (Alpha-1-Antitrypsin) gene are associated with severe chronic rhinosinusitis unresponsive to medical therapy. Am J Rhinol Allergy. 24(1): e4-9.
Other Notes	Small volumes of SerpinA1 elisa pair vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SerpinA1 purchase	MBS8118230 is an ELISA pair targeting SerpinA1. Also known as SerpinA1 Matched ELISA Antibody Pair Set, Human.



Testing Data of SerpinA1 elisa pair

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SerpinA1. It may not necessarily be applicable to this product.

Protein Family	Alpha-1-antiproteinase
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

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