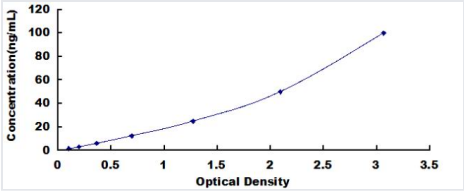
Cytoplasmic Antiproteinase 3 (CAP3) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cytoplasmic Antiproteinase 3 (CAP3), ELISA Kit
Full Product Name	Human Cytoplasmic Antiproteinase 3 (CAP3) ELISA Kit
Product Gene Name	CAP3 elisa kit
Product Synonym Names	SERPINB9; PI9; Serpin Peptidase Inhibitor Clade B Member 9; Peptidase inhibitor 9
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, Plasma, Tissue Homogenates, Cell Lysates or Other Biological Fluids.
Detection Range	1.56-100ng/mL
Sensitivity	0.45ng/mL
Preparation and Storage	For unopened kits: All the reagents should be kept at 4 degree C upon receipt. For opened kits: Once the kit is opened, the remaining reagents still need to be stored according to the above storage conditions. In addition, return the unused wells to the foil pouch containing the desiccant pack and reseal along entire edge of zip-seal.
Molecular Weight	42,404 Da
OMIM	601799
3D Structure	ModBase 3D Structure for P50453
RTU ELISA Kit's Advantage	The Ready-To-Use (RTU) Kits require fewer steps in setup and take less time to run. Detection Solutions are pre-diluted and total incubation time is shorter than many other ELISA Kits.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CAP3 elisa kit	Test Principle: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CAP3. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to CAP3. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain CAP3, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of CAP3 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of CAP3 elisa kit 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 CAP3 purchase	MBS458102 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cytoplasmic Antiproteinase 3 (CAP3) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing CAP3. The ELISA analytical biochemical technique of the MBS458102 kit is based on CAP3 antibody-CAP3 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CAP3 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CAP3. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of CAP3 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CAP3. It may not necessarily be applicable to this product.

NCBI GI #	4758906
NCBI GeneID	5272
NCBI Accession #	NP_004146.1
UniProt Primary Accession #	P50453
UniProt Secondary Accession #	Q5TD03; B2RBW3
UniProt Related Accession #	P50453
GenBank Nucleotide #	NM_004155.5
NCBI Official Full Name	serpin B9
NCBI Official Synonym Full Names	serpin family B member 9
NCBI Official Symbol	SERPINB9
NCBI Official Synonym Symbols	PI9; CAP3; PI-9; CAP-3
UniProt Protein Name	Serpin B9
UniProt Synonym Protein Names	Cytoplasmic antiproteinase 3; CAP-3; CAP3; Peptidase inhibitor 9; PI-9
Protein Family	Metallothionein-like protein
UniProt Gene Name	SERPINB9
UniProt Synonym Gene Names	PI9; CAP-3; CAP3; PI-9
NCBI Protein Information	serpin B9
NCBI Summary for CAP3	This gene encodes a member of the serine protease inhibitor family which are also known as serpins. The encoded protein belongs to a subfamily of intracellular serpins. This protein inhibits the activity of the effector molecule granzyme B. Overexpression of this protein may prevent cytotoxic T-lymphocytes from eliminating certain tumor cells. A pseudogene of this gene is found on chromosome 6. [provided by RefSeq, Mar 2012]
UniProt Comments for CAP3	Granzyme B inhibitor.
Research Articles on CAP3	**1.** Data show that the serine protease inhibitor B9 (serpinB9) mediated caspase-1 inhibition regulates IL-1beta release in monocytes.
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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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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