Alpha 1-Antichymotrypsin (SERPINA3) Antibody – Goat Polyclonal

PRODUCT OVERVIEW

Product Name	alpha 1-Antichymotrypsin (SERPINA3), Polyclonal Antibody
Full Product Name	Goat anti-Human Alpha 1-Antichymotrypsin
Product Gene Name	anti-SERPINA3 antibody
Product Synonym Names	Goat anti-Human Alpha 1-Antichymotrypsin; anti-Human alpha 1-Antichymotrypsin
Clonality	Polyclonal
Host	Goat
Species Reactivity	Human
Form/Format	Whole Serum Physical State: Liquid
Concentration	4.0mL (2 vials): 2.0ml each (lot specific)
Preparation and Storage	Store at 4 degree C. Shelf Life: 12 months from shipment date
Molecular Weight	47,651 Da
Chromosome Location	Chromosome: 14; NC_000014.8 (95078714..95090390). Location: 14q32.1
OMIM	107280
3D Structure	ModBase 3D Structure for P01011
Preservative	0.1% sodium azide
Procedure	Goats were immunized with highly purified human Alpha 1-Antichymotrypsin. After multiple immunizations the goats were bled and antiserum was collected. The antiserum was then solid phase absorbed to ensure specificity to human Alpha 1-Antichymotrypsin.
Product Categories/Family for anti-SERPINA3 antibody	Human Protein
Application Notes for anti-SERPINA3 antibody	The anti-Human Alpha 1-Antichymotrypsin forms a single precipitin arc against purified human Alpha 1-Antichymotrypsin by immunoelectrophoresis.
Related Product Information for anti-SERPINA3 antibody	Goats were immunized with highly purified human Alpha 1-Antichymotrypsin. The resulting antiserum was passed over an antigen containing immunoabsorbant from which the anti-human Alpha 1-Antichymotrypsin was immunoaffinity purified.
Other Notes	Small volumes of anti-SERPINA3 antibody 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 SERPINA3 purchase	MBS560230 is an antibody targeting SERPINA3. Also known as Goat anti-Human Alpha 1-Antichymotrypsin. Reactive in Human. Host: Goat.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SERPINA3. It may not necessarily be applicable to this product.

NCBI GI #	50659080
NCBI GeneID	12

NCBI Accession #	NP_001076.2
UniProt Primary Accession #	P01011
UniProt Secondary Accession #	Q13703; Q2TU87; Q2TU88; Q59GP9; Q6LBY8; Q6LDT7; Q6NSC9; Q8N177; Q96DW8; Q9UC47; B3KVQ7
UniProt Related Accession #	P01011
GenBank Nucleotide #	NM_001085.4
NCBI Official Full Name	alpha-1-antichymotrypsin
NCBI Official Synonym Full Names	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 3
NCBI Official Symbol	SERPINA3
NCBI Official Synonym Symbols	ACT; AACT; GIG24; GIG25; MGC88254
UniProt Protein Name	Alpha-1-antichymotrypsin
UniProt Synonym Protein Names	Cell growth-inhibiting gene 24/25 protein; Serpin A3
Protein Family	Alpha-1-antichymotrypsin
UniProt Gene Name	SERPINA3
UniProt Synonym Gene Names	AACT
UniProt Entry Name	AACT_HUMAN
NCBI Protein Information	alpha-1-antichymotrypsin; serpin A3; OTTHUMP00000028439; growth-inhibiting protein 24; growth-inhibiting protein 25; cell growth-inhibiting gene 24/25 protein; serine (or cysteine) proteinase inhibitor, clade A, member 3
NCBI Summary for SERPINA3	The protein encoded by this gene is a plasma protease inhibitor and member of the serine protease inhibitor class. Polymorphisms in this protein appear to be tissue specific and influence protease targeting. Variations in this protein's sequence have been implicated in Alzheimer's disease, and deficiency of this protein has been associated with liver disease. Mutations have been identified in patients with Parkinson disease and chronic obstructive pulmonary disease. [provided by RefSeq]
UniProt Comments for SERPINA3	SERPINA3: Although its physiological function is unclear, it can inhibit neutrophil cathepsin G and mast cell chymase, both of which can convert angiotensin-1 to the active angiotensin-2. Belongs to the serpin family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 14q32.1 Cellular Component: extracellular space; extracellular region; intracellular; nucleus Molecular Function: serine-type endopeptidase inhibitor activity; protein binding; DNA binding Biological Process: regulation of lipid metabolic process; maintenance of gastrointestinal epithelium; acute-phase response; inflammatory response
Research Articles on SERPINA3	**1.** The Alpha 1 antichymotrypsin is an independent histological prognostic marker for patients with Melanoma, especially those with Stage III melanoma.
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