

Rabbit SERPINB1 Polyclonal Antibody | anti-SERPINB1 antibody

SERPINB1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329088	Rabbit	HumanPredicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Dog(100%)	ELISA

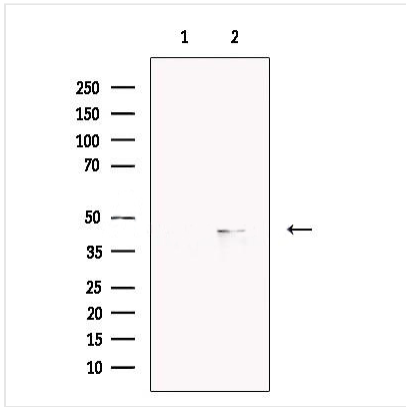
PRODUCT SYNONYMS

SERPINB1; Polyclonal Antibody; SERPINB1 Antibody; Anti elastase; EI; ELANH2; Epididymis luminal protein 57; HEL57; ILEU_HUMAN; LEI; Leukocyte elastase inhibitor; M/NEI; MNEI; Monocyte/neutrophil elastase inhibitor; Peptidase inhibitor 2; Pi-2; PI2; Serine (or cysteine) proteinase inhibitor clade B (ovalbumin) member 1; Serpin B1; Serpin peptidase inhibitor clade B (ovalbumin) member 1; serpinb1; anti-SERPINB1 antibody

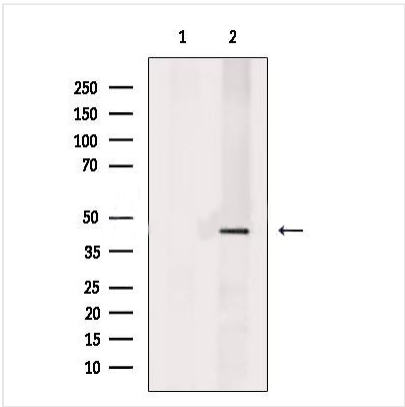
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Dog(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	SERPINB1 Antibody detects endogenous levels of total SERPINB1.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	379
Applicable Applications for anti-SERPINB1 antibody	ELISA
Immunogen	A synthesized peptide derived from human SERPINB1, corresponding to a region within N-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of extracts from 293T, using SERPINB1 Antibody. The lane on the left was treated with blocking peptide.



WB (Western Blot)
Western blot analysis of extracts from HeLa cells, using SERPINB1 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-SERPINB1 antibody	Function: Neutrophil serine protease inhibitor that plays an essential role in the regulation of the innate immune response, inflammation and cellular homeostasis (PubMed:30692621). Acts primarily to protect the cell from proteases released in the cytoplasm during stress or infection. These proteases are important in killing microbes but when released from granules, these potent enzymes also destroy host proteins and contribute to mortality. Regulates the activity of the neutrophil proteases elastase, cathepsin G, proteinase-3, chymase, chymotrypsin, and kallikrein-3 (PubMed:11747453, PubMed:30692621). Acts also as a potent intracellular inhibitor of GZMH by directly blocking its proteolytic activity (PubMed:23269243). During inflammation, limits the activity of inflammatory caspases CASP1, CASP4 and CASP5 by suppressing their caspase-recruitment domain (CARD) oligomerization and enzymatic activation (PubMed:30692621). When secreted, promotes the proliferation of beta-cells via its protease inhibitory function (PubMed:26701651).
	Subcellular Location: Secreted. Cytoplasm. Cytoplasmic granule.
	Tissue Specificity: In human bone marrow, present in all CD45+ populations. Expression levels are highest in the neutrophil lineage, intermediate in monocytic, and lowest in lymphocytic lineage. Within the neutrophil lineage, expression is highest in promyelocytes.
	Subunit Structure: Monomer (PubMed:23269243). Interacts (via C-terminus) with CASP1; CASP4 (via CARD domain) and CASP5; these interactions regulate the activity of inflammatory caspases (PubMed:30692621). Interacts with PRTN3 (PubMed:30692621). Interacts with GZMH (PubMed:23269243).
	Similarity: Reactive bond 1 is specific for reaction with chymotrypsin-like protease such as cathepsin G, chymotrypsin, chymase or granzyme H, while reactive bond 2 is specific for reaction with elastase-like protease such as neutrophil elastase, proteinase-3, pancreatic elastase or PSA.Belongs to the serpin family. Ov-serpin subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	13489087
NCBI GeneID	1992
NCBI Accession #	NP_109591.1
NCBI GenBank Nucleotide #	NP_109591.1
UniProt Accession #	P30740
Molecular Weight	Observed Molecular Weight: (Observed)42kD. Predicted Molecular Weight: (Calculated)43kDa.
NCBI Official Full Name	leukocyte elastase inhibitor

NCBI Official Synonym Full Names	serpin family B member 1
NCBI Official Symbol	SERPINB1
NCBI Official Synonym Symbols	EI; LEI; PI2; MNEI; PI-2; HEL57; M/NEI; ELANH2; HEL-S-27
NCBI Protein Information	leukocyte elastase inhibitor
UniProt Protein Name	Leukocyte elastase inhibitor
UniProt Gene Name	SERPINB1
UniProt Synonym Gene Names	ELANH2; MNEI; PI2; LEI; EI; M/NEI; PI-2
UniProt Entry Name	ILEU_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/serpinb1-antibody-elisa/329088>