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Anti-SERPINB1 Antibody (aa65-80)

Goat Anti Human Polyclonal Antibody
Catalog # ALS17935

Product Information

Application	WB, IHC-P, E
Primary Accession	P30740
Predicted	Human
Host	Goat
Clonality	Polyclonal
Calculated MW	42742
Concentration (mg/ml)	0.5 mg/ml

Additional Information

Gene ID	1992
Alias Symbol	SERPINB1
Other Names	SERPINB1, Anti-elastase, EI, LEI, Leukocyte elastase inhibitor, Peptidase inhibitor 2, PI-2, MNEI, ELANH2, M/NEI, PI2, Serpin B1
Target/Specificity	Human SERPINB1
Reconstitution & Storage	Immunoaffinity purified
Precautions	Anti-SERPINB1 Antibody (aa65-80) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SERPINB1
Synonyms	ELANH2, MNEI, PI2
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). Also acts 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).
Cellular Location	Secreted. Cytoplasm. Cytolytic granule. Early endosome
Tissue Location	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