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Anti-SERPINB1 Antibody (aa65-80)

Goat Anti Human Polyclonal Antibody

Catalog # ALS17935

Specification

Anti-SERPINB1 Antibody (aa65-80) - Product Information

Application	**WB, IHC-P, E**
Primary Accession	P30740
Predicted	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Calculated MW	**42742**

Anti-SERPINB1 Antibody (aa65-80) - 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.

Anti-SERPINB1 Antibody (aa65-80) - 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).

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).

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

Anti-SERPINB1 Antibody (aa65-80) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-SERPINB1 Antibody (aa65-80) - Images