10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

SERPINA1 / Alpha 1 Antitrypsin Antibody (clone 48D2)

Mouse Monoclonal Antibody
Catalog # ALS14807

Specification

SERPINA1 / Alpha 1 Antitrypsin Antibody (clone 48D2) - Product Information

Application	**WB, IHC**
Primary Accession	P01009
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**47kDa KDa**

SERPINA1 / Alpha 1 Antitrypsin Antibody (clone 48D2) - Additional Information

Gene ID 5265

Other Names
Alpha-1-antitrypsin, Alpha-1 protease inhibitor, Alpha-1-antiproteinase, Serpin A1, Short peptide from AAT, SPAAT, SERPINA1, AAT, PI

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions
SERPINA1 / Alpha 1 Antitrypsin Antibody (clone 48D2) is for research use only and not for use in diagnostic or therapeutic procedures.

SERPINA1 / Alpha 1 Antitrypsin Antibody (clone 48D2) - Protein Information

Name SERPINA1 (HGNC:8941)

Synonyms AAT, PI

Function
Inhibitor of serine proteases. Its primary target is elastase, but it also has a moderate affinity for plasmin and thrombin. Irreversibly inhibits trypsin, chymotrypsin and plasminogen activator. The aberrant form inhibits insulin-induced NO synthesis in platelets, decreases coagulation time and has proteolytic activity against insulin and plasmin.

Cellular Location
Secreted. Endoplasmic reticulum. Note=The S and Z allele are not secreted effectively and accumulate intracellularly in the endoplasmic reticulum

Tissue Location
Ubiquitous. Expressed in leukocytes and plasma.

Volume

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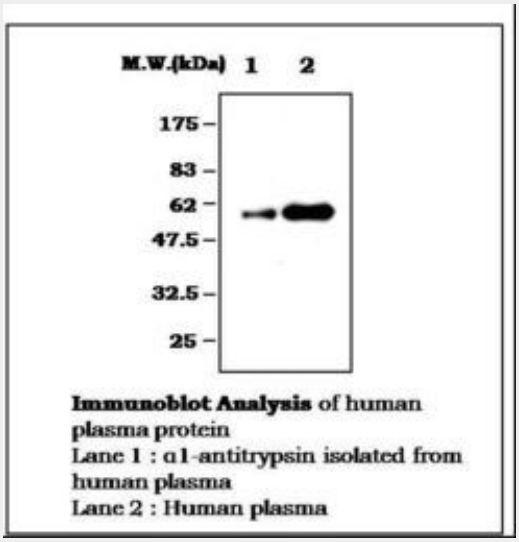
50 µl

SERPINA1 / Alpha 1 Antitrypsin Antibody (clone 48D2) - Protocols

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

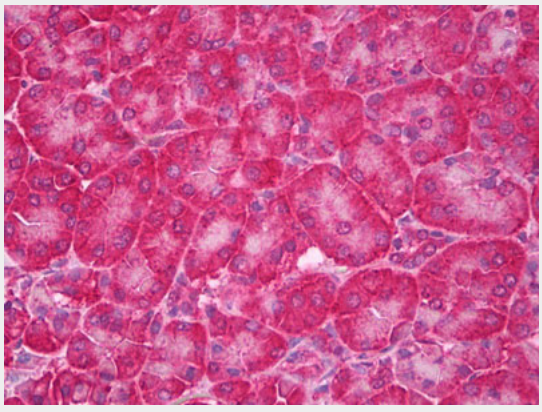
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SERPINA1 / Alpha 1 Antitrypsin Antibody (clone 48D2) - Images



Immunoblot Analysis of human plasma protein
Lane 1 : α1-antitrypsin isolated from human plasma
Lane 2 : Human plasma

0



Anti-Alpha-1-Antitrypsin antibody IHC of human pancreas.

SERPINA1 / Alpha 1 Antitrypsin Antibody (clone 48D2) - Background

Inhibitor of serine proteases. Its primary target is elastase, but it also has a moderate affinity for

plasmin and thrombin. Irreversibly inhibits trypsin, chymotrypsin and plasminogen activator. The aberrant form inhibits insulin-induced NO synthesis in platelets, decreases coagulation time and has proteolytic activity against insulin and plasmin.

SERPINA1 / Alpha 1 Antitrypsin Antibody (clone 48D2) - References

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Long G.L.,et al.Biochemistry 23:4828-4837(1984).
Rosenberg S.,et al.Nature 312:77-80(1984).
Ciliberto G.,et al.Cell 41:531-540(1985).
Nukiwa T.,et al.J. Biol. Chem. 261:15989-15994(1986).