

For Research Use Only

Alpha 1 antichymotrypsin Polyclonal antibody

Catalog Number: 12192-1-AP

8 Publications



Basic Information

Catalog Number:

12192-1-AP

Size:

150ul, Concentration: 900 ug/ml by Nanodrop and 467 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2830

GenBank Accession Number:

BC010530

GeneID (NCBI):

12

UNIPROT ID:

P01011

Full Name:

serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 3

Calculated MW:

448 aa, 48 kDa

Observed MW:

44-70 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, FC (Intra), IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human

Cited Species:

human, mouse, rat

Positive Controls:

WB : human blood tissue, COLO 320 cells, human colon tissue

IP : COLO 320 cells,

IHC : human tonsillitis tissue, human liver tissue, human spleen tissue

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Human SerpinA3, also known as Alpha 1-antichymotrypsin (AACT), is a member of the serine protease inhibitor class, and is a plasma alpha globulin glycoprotein which increases in the blood during the inflammatory process. SerpinA3, is also an inhibitor of neutrophil cathepsin G, mast cell chymases and pancreatic chymotrypsin. SerpinA3 is produced primarily in the liver, and is identified as an acute-phase inflammatory protein. SerpinA3 deficiency has been associated with liver disease. SerpinA3 has also been implicated in the pathology of a number of devastating human diseases including chronic obstructive pulmonary disease (COPD), Parkinson's disease (PD), Alzheimer's disease (AD), Stroke, Cystic Fibrosis, Cerebral Haemorrhage and Multiple System Atrophy.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|------------------|-----------|-------------------------|-------------|
| Di Wang | 36248880 | Front Immunol | WB |
| Zhendong Liu | 36056701 | Food Funct | WB |
| Zsofia I. Laszlo | 36309735 | Acta Neuropathol Commun | WB |

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

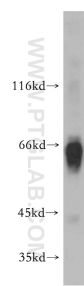
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

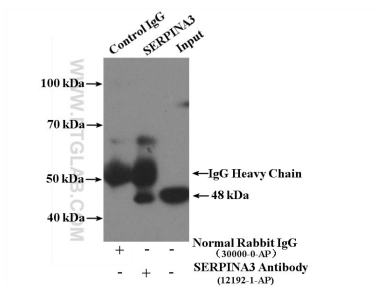
E: proteintech@ptglab.com
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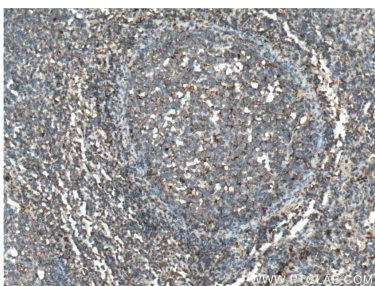
Selected Validation Data



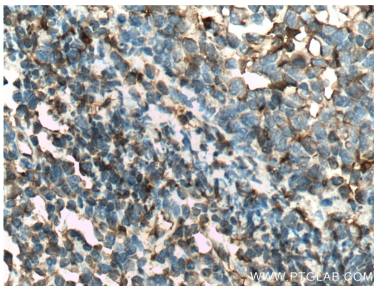
human blood were subjected to SDS PAGE followed by western blot with 12192-1-AP (alpha 1 Antichymotrypsin antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



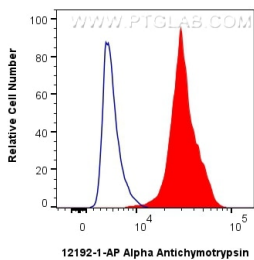
IP result of anti-Alpha Antichymotrypsin (IP:12192-1-AP, 4ug; Detection:12192-1-AP 1:500) with COLO 320 cells lysate 2000ug.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 12192-1-AP (alpha 1 Antichymotrypsin antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 12192-1-AP (alpha 1 Antichymotrypsin antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10⁶ HepG2 cells were intracellularly stained with 0.25 ug Alpha Antichymotrypsin Polyclonal antibody (12192-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).