

Alpha Antichymotrypsin Polyclonal antibody

Catalog Number: 12192-1-AP

7 Publications

Basic Information

Catalog Number:

12192-1-AP

Size:

900 µg/ml

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 µg for 1.0-3.0 mg of total
protein lysate

IHC 1:50-1:500

Applications

Tested Applications:

FC, IHC, IP, WB, ELISA

Cited Applications:

IHC, WB

Species Specificity:

human

Cited Species:

human, rat, mouse

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
Zsafia 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

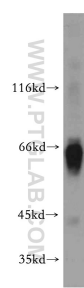
For technical support and original validation data for this product please contact:

T: 4006900926

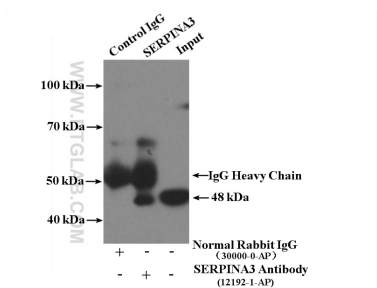
E: Proteintech-CN@ptglab.comW: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

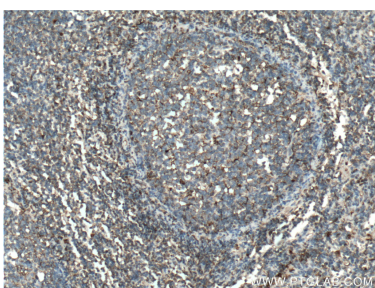
Selected Validation Data



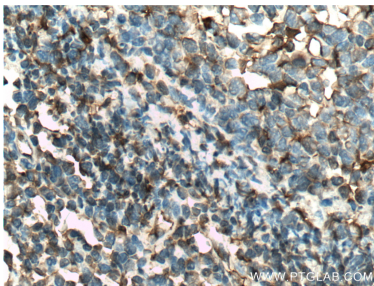
human blood were subjected to SDS PAGE followed by western blot with 12192-1-AP (alpha 1 Antichymotrypsin antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



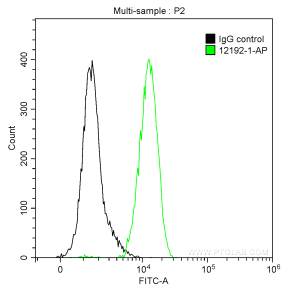
IP result of anti-Alpha Antichymotrypsin (IP:12192-1-AP, 4ug; Detection:12192-1-AP 1:500) with COLO 320 cells lysate 2000ug.



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 0.2 ug Anti-Human Alpha Antichymotrypsin (12192-1-AP) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (green), and 0.2 ug Control Antibody. Cells were fixed with 90% MeOH.