

For Research Use Only

Alpha Antichymotrypsin Monoclonal antibody



Catalog Number: 66078-1-Ig **3 Publications**

Basic Information

Catalog Number: 66078-1-Ig	GenBank Accession Number: BC010530	Purification Method: Protein A purification
Size: 150ul , Concentration: 1800 µg/ml by Nanodrop and 767 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 12	CloneNo.: 3F2F10
Source: Mouse	Full Name: serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 3	Recommended Dilutions: WB 1:2000-1:20000 IHC 1:50-1:500 IF 1:50-1:500
Isotype: IgG2b	Calculated MW: 448 aa, 48 kDa	
Immunogen Catalog Number: AG2830	Observed MW: 60 kDa	

Applications

Tested Applications:
FC, IF, IHC, WB, ELISA

Cited Applications:
IHC, WB

Species Specificity:
human, pig

Cited Species:
human

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

Positive Controls:

WB : human plasma tissue, human colon tissue

IHC : human tonsillitis tissue, human liver tissue

IF : human tonsillitis tissue,

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
Yanxia Jin	26908325	Br J Cancer	
Yingzi Zhang	33569740	Breast Cancer	WB,IHC
Masaki Ueno	37631275	Pharmaceutics	IHC

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**

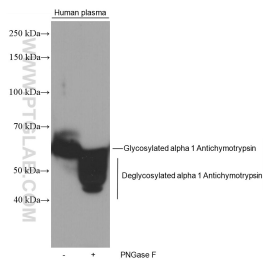
For technical support and original validation data for this product please contact:

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

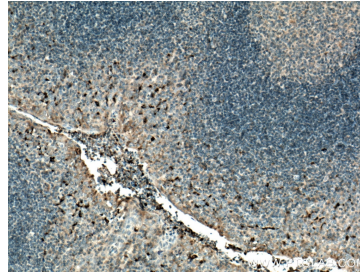
E: proteintech@ptglab.com
W: ptglab.com

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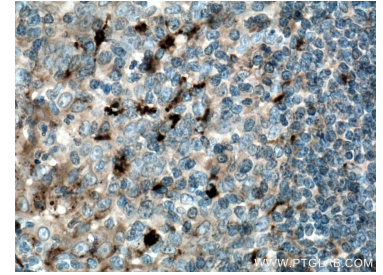
Selected Validation Data



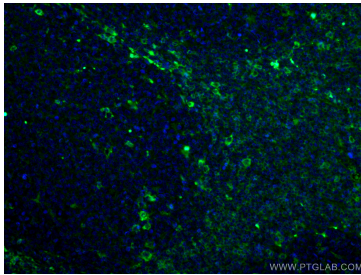
Untreated and PNGase F-treated lysates of human plasma were subjected to SDS PAGE followed by western blot with 66078-1-ig (alpha 1 Antichymotrypsin antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. Loading amount 0.7 μ L crude plasma was lysed for each lane. PNGase F was obtained from Atagenix (cat.NO. ata808).



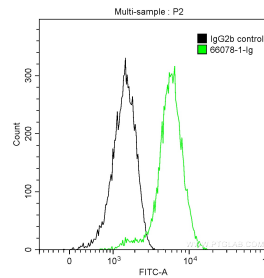
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66078-1-ig (alpha 1 Antichymotrypsin antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66078-1-ig (alpha 1 Antichymotrypsin antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using 66078-1-ig (alpha 1 Antichymotrypsin antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1×10^6 HepG2 cells were intracellularly stained with 0.2 μ g Anti-Human Alpha Antichymotrypsin (66078-1-ig, Clone:3F2F10) and CoraLite[®]488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (green), and 0.2 μ g Control Antibody. Cells were fixed with 90% MeOH.