For Research Use Only

Alpha Antichymotrypsin Monoclonal antibody

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Antibodies | ELISA kits | Proteins
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Catalog Number:66078-1-Ig 3 Publications

Basic Information

Catalog Number:
66078-1-Ig

Size:
1000 μg/ml

Source:
Mouse

Isotype:
IgG2b

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:
60 kDa

Purification Method:
Protein A purification

CloneNo.:
3F2F10

Recommended Dilutions:
WB 1:5000-1:50000
IHC 1:50-1:500
IF-P 1:50-1:500

Applications

Tested Applications:
WB, IF-P, IHC, ELISA

Cited Applications:
WB, IHC

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, human colon tissue

IHC : human tonsillitis tissue, human liver tissue

IF-P : 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

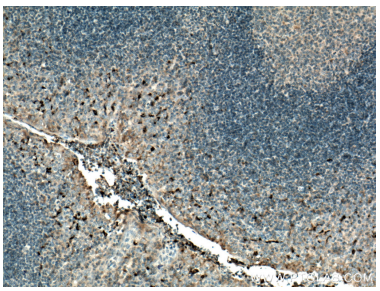
Storage

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

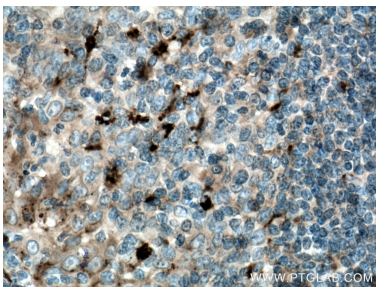
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

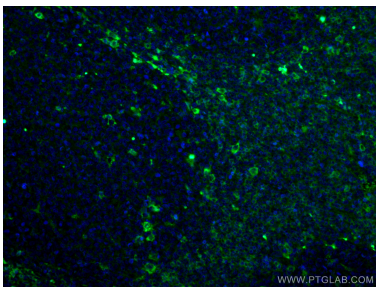
Selected Validation Data



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).