

For Research Use Only

SERPINB9 Monoclonal antibody

Catalog Number: 67950-1-Ig **2 Publications**



Basic Information

| | | |
|--|--|---|
| Catalog Number: 67950-1-Ig | GenBank Accession Number: BC002538 | Purification Method: Protein G purification |
| Size: 150ul , Concentration: 1000 ug/ml by Nanodrop; | GeneID (NCBI): 5272 | CloneNo.: 2H9D2 |
| Source: Mouse | UNIPROT ID: P50453 | Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000 IF/ICC 1:400-1:1600 |
| Isotype: IgG1 | Full Name: serpin peptidase inhibitor, clade B (ovalbumin), member 9 | |
| Immunogen Catalog Number: AG6719 | Calculated MW: 42 kDa | |
| | Observed MW: 38 kDa | |

Applications

| | |
|--|--|
| Tested Applications: WB, IHC, IF/ICC, ELISA | Positive Controls: |
| Cited Applications: WB, IHC, IF | WB : K-562 cells, human placenta tissue, Daudi cells, Raji cells, Ramos cells |
| Species Specificity: Human, Mouse, Rat | IHC : mouse lung tissue, |
| Cited Species: human, mouse | IF/ICC : C6 cells, |
| 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

SERPINB9, also named as PI-9, belongs to the serpin family. SERPINB9 is an intracellular inhibitor of granzyme B (grB) that protects cytotoxic lymphocytes from grB-mediated death. It has a nucleo-cytoplasmic distribution and is produced in CD8+ T cells and natural killer cells (PMID: 28024184). Also, SERPINB9 is expressed by vascular SMCs and endothelial cells to avoid GZB-induced apoptosis (PMID: 28743062). The molecular weight of SERPINB9 is 42 kDa.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|----------------|-----------|----------------|-------------|
| Zhouliang Bian | 39528470 | Cell Death Dis | IHC,IF |
| Huachun Chen | 39115961 | Immunotherapy | WB |

Storage

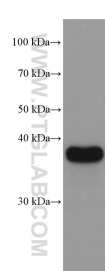
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

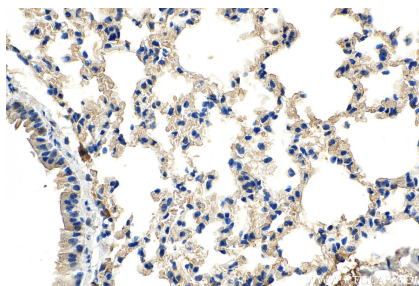
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

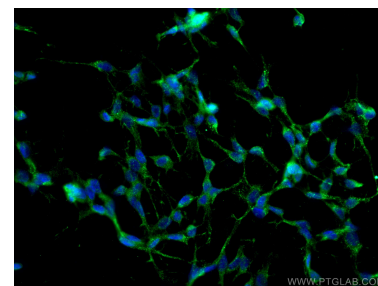
Selected Validation Data



K-562 cells were subjected to SDS PAGE followed by western blot with 67950-1-Ig (SERPINB9 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 67950-1-Ig (SERPINB9 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed C6 cells using SERPINB9 antibody (67950-1-Ig, Clone: 2H9D2) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).