

Proteinase Inhibitor 9 (PI-9) Antibody (Clone PI9-17)
Mouse Monoclonal Antibody
Catalog # ABV10399

Specification

Proteinase Inhibitor 9 (PI-9) Antibody (Clone PI9-17) - Product Information

Application	WB
Primary Accession	P50453
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	42404

Proteinase Inhibitor 9 (PI-9) Antibody (Clone PI9-17) - Additional Information

Gene ID 5272

Application & Usage

Western blotting (2-4 µg/ml) and Immunohistochemistry (20 µg/ml). It recognizes 42 kDa native human PI-9 and the 63 kDa PI-9 complexed to granzyme B. Reactivity to other species has not been tested.

Other Names

CAP3 CAP3 Cytoplasmic antiase3 PI9 Protease inhibitor9 ovalbumin type Serpin B9 Serine or Cysteine ase Inhibitor

Target/Specificity

PI9

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.5 mg/ml) mouse monoclonal antibody from culture supernatant diluted in phosphate-buffered saline (PBS) containing 50% glycerol, 1% BSA, and 0.02% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions

Precautions

Proteinase Inhibitor 9 (PI-9) Antibody (Clone PI9-17) is for research use only and not for use in diagnostic or therapeutic procedures.

Proteinase Inhibitor 9 (PI-9) Antibody (Clone PI9-17) - Protein Information

Name SERPINB9

Synonyms PI9

Function

Granzyme B inhibitor.

Cellular Location

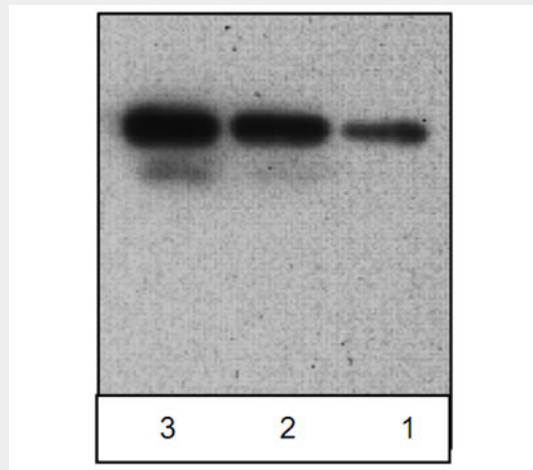
Cytoplasm.

Proteinase Inhibitor 9 (PI-9) Antibody (Clone PI9-17) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Proteinase Inhibitor 9 (PI-9) Antibody (Clone PI9-17) - Images



Western blot analysis of recombinant PI9: Lane 1: 2 µg □ Lane 2: 5 µg □ Lane 3: 10 µg

Proteinase Inhibitor 9 (PI-9) Antibody (Clone PI9-17) - Background

Proteinase inhibitor 9 (PI-9, also designated cytoplasmic antiproteinase 3, or CAP3) is a 42 kDa member of the ovalbumin family of serpins that is expressed in placenta, lung and cytotoxic

lymphocytes. PI-9 is a potent inhibitor of granzyme B and of granzyme B-mediated apoptosis, and is also an inhibitor of caspase-1 and, to a smaller extent, caspase-4 and caspase-8. PI-9 expression is also upregulated in response to inflammatory stimuli. This upregulation protects cells from apoptosis induced by endogenously expressed or released granzyme B, particularly during target cell killing.