

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.
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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.

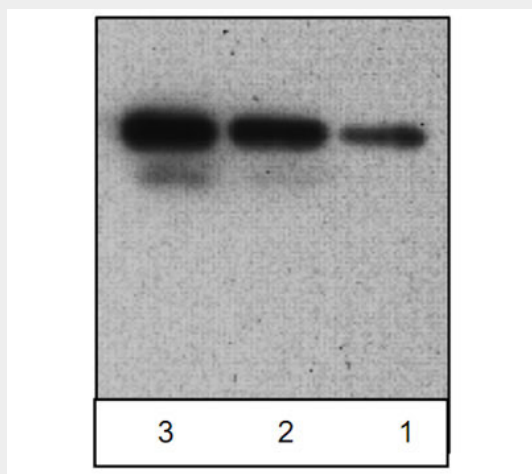
Cellular Location

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 capase-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.