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Proteinase Inhibitor 9 (PI9) Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10400

Specification

Proteinase Inhibitor 9 (PI9) Antibody - Product Information

Application	**WB**
Primary Accession	P50453
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**42404**

Proteinase Inhibitor 9 (PI9) Antibody - Additional Information

Gene ID 5272

Application & Usage	**Western blotting (1-4 µg/ml). However, the optimal concentrations should be determined individually. The antibody recognizes 42 kDa human PI-9. Reactivity to other species has not been tested.**

Other Names
CAP3 , CAP 3 , Cytoplasmic antiase3 PI9 , Protease inhibitor9 ovalbumin type Serpin B9 Serine , Cysteine ase Inhibitor

Target/Specificity
PI9

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
100 µg (0.5 mg/ml) affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions

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

Proteinase Inhibitor 9 (PI9) Antibody - Protein Information

Name SERPINB9

Synonyms PI9

Function
Granzyme B inhibitor.

Cellular Location
Cytoplasm.

Proteinase Inhibitor 9 (PI9) Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Proteinase Inhibitor 9 (PI9) Antibody - Images

Proteinase Inhibitor 9 (PI9) Antibody - 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, particulary during target cell killing