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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