

**Proteinase Inhibitor 6 (PI-6) Antibody (Clone 3A)**  
**Mouse Monoclonal Antibody**  
**Catalog # ABV10660****Specification**

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**Proteinase Inhibitor 6 (PI-6) Antibody (Clone 3A) - Product Information**

Application	IF, FC, IP
Primary Accession	<a href="#">P35237</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG2b/k
Calculated MW	42622

**Proteinase Inhibitor 6 (PI-6) Antibody (Clone 3A) - Additional Information****Gene ID** 5269**Application & Usage**

The antibody can be used in indirect immunofluorescence, immunoprecipitation, and flow cytometry. However, the optimal concentrations should be determined individually.

**Other Names**

CAP, DKFZp686I04222 , MGC111370 , MSTP057 , PI6 , PTI , SERPINB6

**Target/Specificity**

PI6

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µg (0.5 mg/ml) purified mouse monoclonal 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**

Proteinase Inhibitor 6 (PI-6) Antibody (Clone 3A) is for research use only and not for use in

diagnostic or therapeutic procedures.

## **Proteinase Inhibitor 6 (PI-6) Antibody (Clone 3A) - Protein Information**

**Name** SERPINB6

**Synonyms** PI6, PTI

### **Function**

May be involved in the regulation of serine proteinases present in the brain or extravasated from the blood (By similarity). Inhibitor of cathepsin G, kallikrein-8 and thrombin. May play an important role in the inner ear in the protection against leakage of lysosomal content during stress and loss of this protection results in cell death and sensorineural hearing loss.

### **Cellular Location**

Cytoplasm

### **Tissue Location**

Expressed in keratinocytes (at protein level). Highest levels in skeletal muscle. Also found in placenta, cardiac muscle, lung, liver, kidney and pancreas. Expressed in the inner ear hair cells. Expressed abundantly by normal mast cells in different tissues and by mast cells in mastocytoma lesions

## **Proteinase Inhibitor 6 (PI-6) Antibody (Clone 3A) - 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 6 (PI-6) Antibody (Clone 3A) - Images**

## **Proteinase Inhibitor 6 (PI-6) Antibody (Clone 3A) - Background**

Proteinase inhibitor 6 (PI-6) is a 42 kDa cytoplasmic protein belonging to the serine proteinase inhibitor (serpin) super family and the ovalbumin-serpin super family. Sequence similarity suggests that PI-6 most resembles the ovalbumin serpins. Highest levels of PI-6 are found in skeletal muscle. PI-6 is also found in placenta, cardiac muscle, lung, liver, kidney and pancreas.