

**Goat Anti-SERPINB6 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1979a****Specification**

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**Goat Anti-SERPINB6 Antibody - Product Information**

Application	WB, E
Primary Accession	<a href="#">P35237</a>
Other Accession	<a href="#">NP_004559</a> , <a href="#">5269</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	42622

**Goat Anti-SERPINB6 Antibody - Additional Information****Gene ID** 5269**Other Names**

Serpin B6, Cytoplasmic antiproteinase, CAP, Peptidase inhibitor 6, PI-6, Placental thrombin inhibitor, SERPINB6, PI6, PTI

**Dilution**

WB~~1:1000

E~~N/A

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-SERPINB6 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-SERPINB6 Antibody - 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

### **Goat Anti-SERPINB6 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 Cytometry](#)
- [Cell Culture](#)

### **Goat Anti-SERPINB6 Antibody - Images**



AF1979a (0.1 µg/ml) staining of Human Ovary lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### **Goat Anti-SERPINB6 Antibody - Background**

The protein encoded by this gene is a member of the serpin (serine proteinase inhibitor) superfamily, and ovalbumin(ov)-serpin subfamily. It was originally discovered as a placental thrombin inhibitor. The mouse homolog was found to be expressed in the hair cells of the inner ear. Mutations in this gene are associated with nonsyndromic progressive hearing loss, suggesting that this serpin plays an important role in the inner ear in the protection against leakage of lysosomal content during stress, and that loss of this protection results in cell death and sensorineural hearing loss. Alternatively spliced transcript variants have been found for this gene.

## **Goat Anti-SERPINB6 Antibody - References**

A truncating mutation in SERPINB6 is associated with autosomal-recessive nonsyndromic sensorineural hearing loss. Sirmaci A, et al. Am J Hum Genet, 2010 May 14. PMID 20451170.

[Colorectal cancer 2D-proteomics: identification of altered protein expression] Krasnov GS, et al. Mol Biol (Mosk), 2009 Mar-Apr. PMID 19425502.

Toward a confocal subcellular atlas of the human proteome. Barbe L, et al. Mol Cell Proteomics, 2008 Mar. PMID 18029348.

SerpinB6 is an inhibitor of kallikrein-8 in keratinocytes. Scott FL, et al. J Biochem, 2007 Oct. PMID 17761692.

Expression of serpinb6 serpins in germ and somatic cells of mouse gonads. Charron Y, et al. Mol Reprod Dev, 2006 Jan. PMID 16175637.