10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

Specification

Goat Anti-SERPINB6 Antibody - Product Information

Application	**WB**
Primary Accession	P35237
Other Accession	NP_004559, 5269
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

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