

Goat Anti-SERPINB9 Antibody
Peptide-affinity purified goat antibody
Catalog # AF1980a**Specification**

Goat Anti-SERPINB9 Antibody - Product Information

Application	WB, E
Primary Accession	P50453
Other Accession	NP_004146 , 5272 , 20723 (mouse)
Reactivity	Human
Predicted	Mouse, Rat
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	42404

Goat Anti-SERPINB9 Antibody - Additional Information**Gene ID** 5272**Other Names**

Serp1n B9, Cytoplasmic antiproteinase 3, CAP-3, CAP3, Peptidase inhibitor 9, PI-9, SERPINB9, PI9

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-SERPINB9 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-SERPINB9 Antibody - Protein Information**Name** SERPINB9**Synonyms** PI9**Function**

Granzyme B inhibitor.

Cellular Location

Cytoplasm.

Goat Anti-SERPINB9 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-SERPINB9 Antibody - Images



AF1980a (0.5 µg/ml) staining of Human Placenta lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-SERPINB9 Antibody - Background

PI9 belongs to the large superfamily of serine proteinase inhibitors (serpins), which bind to and inactivate serine proteinases. These interactions are involved in many cellular processes, including coagulation, fibrinolysis, complement fixation, matrix remodeling, and apoptosis (Sprecher et al., 1995 [PubMed 8530382]).

Goat Anti-SERPINB9 Antibody - References

Expression of proteinase inhibitor-9/serpinB9 in non-small cell lung carcinoma cells and tissues. Rousalova I, et al. Int J Oncol, 2010 Jan. PMID 19956856.

Low concentrations of the soy phytoestrogen genistein induce proteinase inhibitor 9 and block killing of breast cancer cells by immune cells. Jiang X, et al. Endocrinology, 2008 Nov. PMID 18669594.

Proteinase inhibitor-9 expression is induced by maturation in dendritic cells via p38 MAP kinase. Bots M, et al. Hum Immunol, 2007 Dec. PMID 18191723.

Ectopic expression of the serine protease inhibitor PI9 modulates death receptor-mediated

apoptosis. Kummer JA, et al. Cell Death Differ, 2007 Aug. PMID 17479112.

Interplay between the levels of estrogen and estrogen receptor controls the level of the granzyme inhibitor, proteinase inhibitor 9 and susceptibility to immune surveillance by natural killer cells.

Jiang X, et al. Oncogene, 2007 Jun 14. PMID 17237823.