

Goat Anti-MP100 / NPEPPS Antibody
Peptide-affinity purified goat antibody
Catalog # AF1679a**Specification**

Goat Anti-MP100 / NPEPPS Antibody - Product Information

Application	WB, E
Primary Accession	P55786
Other Accession	NP_006301 , 9520
Reactivity	Human
Predicted	Mouse, Rat
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	103276

Goat Anti-MP100 / NPEPPS Antibody - Additional Information**Gene ID** 9520**Other Names**

Puromycin-sensitive aminopeptidase, PSA, 3.4.11.14, Cytosol alanyl aminopeptidase, AAP-S, NPEPPS, PSA

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-MP100 / NPEPPS Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-MP100 / NPEPPS Antibody - Protein Information**Name** NPEPPS**Synonyms** PSA

Function

Aminopeptidase with broad substrate specificity for several peptides. Involved in proteolytic events essential for cell growth and viability. May act as regulator of neuropeptide activity. Plays a role in the antigen-processing pathway for MHC class I molecules. Involved in the N-terminal trimming of cytotoxic T-cell epitope precursors. Digests the poly-Q peptides found in many cellular proteins. Digests tau from normal brain more efficiently than tau from Alzheimer disease brain.

Cellular Location

Cytoplasm, cytosol. Nucleus

Tissue Location

Detected in liver, epithelium of renal tubules, epithelium of small and large intestine, gastric epithelial cells, and alveoli of the lung (at protein level).

Goat Anti-MP100 / NPEPPS 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-MP100 / NPEPPS Antibody - Images

AF1679a (0.3 µg/ml) staining of Human Brain (Cerebral Cortex) lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-MP100 / NPEPPS Antibody - Background

This gene encodes the puromycin-sensitive aminopeptidase, a zinc metallopeptidase which hydrolyzes amino acids from the N-terminus of its substrate. The protein has been localized to both the cytoplasm and to cellular membranes. This enzyme degrades enkaphalins in the brain, and studies in mouse suggest that it is involved in proteolytic events regulating the cell cycle.

Goat Anti-MP100 / NPEPPS Antibody - References

Involvement of puromycin-sensitive aminopeptidase in proteolysis of tau protein in cultured cells, and attenuated proteolysis of frontotemporal dementia and parkinsonism linked to chromosome 17 (FTDP-17) mutant tau. Yanagi K, et al. Psychogeriatrics, 2009 Dec. PMID 20377816.

Defining the human deubiquitinating enzyme interaction landscape. Sowa ME, et al. Cell, 2009 Jul 23. PMID 19615732.

Cobalt chloride-induced downregulation of puromycin-sensitive aminopeptidase suppresses the migration and invasion of PC-3 cells. Lee SH, et al. J Microbiol Biotechnol, 2009 May. PMID 19494703.

Large-scale mapping of human protein-protein interactions by mass spectrometry. Ewing RM, et al. Mol Syst Biol, 2007. PMID 17353931.

The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.