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Goat Anti-XPNPEP1 Antibody

Peptide-affinity purified goat antibody
Catalog # AF2165a

Specification

Goat Anti-XPNPEP1 Antibody - Product Information

Application	**WB**
Primary Accession	Q9NQW7
Other Accession	NP_001161076, 7511, 170750 (mouse), 170751 (rat)
Reactivity	**Human, Mouse, Rat**
Predicted	**Pig, Dog, Cow**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**69918**

Goat Anti-XPNPEP1 Antibody - Additional Information

Gene ID 7511

Other Names
Xaa-Pro aminopeptidase 1, 3.4.11.9, Aminoacylproline aminopeptidase, Cytosolic aminopeptidase P, Soluble aminopeptidase P, sAmp, X-Pro aminopeptidase 1, X-prolyl aminopeptidase 1, soluble, XPNPEP1 {ECO:0000312|EMBL:AAH05126.1}

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-XPNPEP1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-XPNPEP1 Antibody - Protein Information

Name XPNPEP1 {ECO:0000303|PubMed:10871044, ECO:0000312|HGNC:HGNC:12822}

Function
Metalloaminopeptidase that catalyzes the removal of a penultimate prolyl residue from the N-termini of peptides, such as Arg- Pro-Pro (PubMed:11106490, PubMed:<a

href="http://www.uniprot.org/citations/35165443" target="_blank">35165443, PubMed:18515364). Contributes to the degradation of bradykinin (PubMed:11106490).

Cellular Location
Cytoplasm, cytosol.

Tissue Location
Expressed in all tissues tested, including pancreas, heart, muscle, kidney, liver, lung and brain. Highest levels in pancreas.

Goat Anti-XPNPEP1 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-XPNPEP1 Antibody - Images

AF2165a (0.3 µg/ml) staining of Human Pancreas lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-XPNPEP1 Antibody - Background

This gene encodes the cytosolic form of a metalloaminopeptidase that catalyzes the cleavage of the N-terminal amino acid adjacent to a proline residue. The gene product may play a role in degradation and maturation of tachykinins, neuropeptides, and peptide hormones. Alternative splicing results in multiple transcript variants.

Goat Anti-XPNPEP1 Antibody - References

Genome-wide association study identifies a susceptibility locus for biliary atresia on 10q24.2.

Garcia-Barcel MM, et al. Hum Mol Genet, 2010 Jul 15. PMID 20460270.
Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.
The bradykinin-degrading aminopeptidase P is increased in women taking the oral contraceptive pill. Cilia La Corte AL, et al. J Renin Angiotensin Aldosterone Syst, 2008 Dec. PMID 19126663.
Structure of human cytosolic X-prolyl aminopeptidase: a double Mn(II)-dependent dimeric enzyme with a novel three-domain subunit. Li X, et al. J Biol Chem, 2008 Aug 15. PMID 18515364.
A scan of chromosome 10 identifies a novel locus showing strong association with late-onset Alzheimer disease. Grupe A, et al. Am J Hum Genet, 2006 Jan. PMID 16385451.