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XPNPEP3 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP13203b

Specification

XPNPEP3 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q9NQH7

XPNPEP3 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 63929

Other Names
Probable Xaa-Pro aminopeptidase 3, X-Pro aminopeptidase 3, Aminopeptidase P3, APP3, XPNPEP3

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP13203b was selected from the C-term region of XPNPEP3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

XPNPEP3 Antibody (C-term) Blocking Peptide - Protein Information

Name XPNPEP3

Function
Catalyzes the removal of a penultimate prolyl residue from the N-termini of peptides, such as Leu-Pro-Ala (PubMed:25609706, PubMed:28476889). Also shows low activity towards peptides with Ala or Ser at the P1 position (PubMed:28476889).

Cellular Location
[Isoform 1]: Mitochondrion. Cytoplasm. Note=Mainly mitochondrial. Translocates to the cytoplasm following TNFRSF1B activation

Tissue Location
Isoform 1 and isoform 2 are widely expressed, with isoform 1 being more abundant.

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XPNPEP3 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

XPNPEP3 Antibody (C-term) Blocking Peptide - Images

XPNPEP3 Antibody (C-term) Blocking Peptide - Background

XPNPEP3 belongs to a family of X-pro-aminopeptidases (EC3.4.11.9) that utilize a metal cofactor and remove the N-terminalamino acid from peptides with a proline residue in the penultimateposition (summary by Ersahin et al., 2005 [PubMed15708373]).

XPNPEP3 Antibody (C-term) Blocking Peptide - References

O'Toole, J.F., et al. J. Clin. Invest. 120(3):791-802(2010)Ersahin, C., et al. Arch. Biochem. Biophys. 435(2):303-310(2005)Bouwmeester, T., et al. Nat. Cell Biol. 6(2):97-105(2004)Collins, J.E., et al. Genome Biol. 5 (10), R84 (2004) :Dunham, I., et al. Nature 402(6761):489-495(1999)