

**NTAN1 Antibody (C-term) Blocking Peptide**  
Synthetic peptide  
Catalog # BP17739b

**Specification**

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**NTAN1 Antibody (C-term) Blocking Peptide - Product Information**

Primary Accession [Q96AB6](#)

**NTAN1 Antibody (C-term) Blocking Peptide - Additional Information**

Gene ID 123803

**Other Names**

Protein N-terminal asparagine amidohydrolase, 351-, Protein NH2-terminal asparagine amidohydrolase, PNAA, Protein NH2-terminal asparagine deamidase, PNAD, Protein N-terminal Asn amidase, Protein N-terminal asparagine amidase, Protein NTN-amidase, NTAN1

**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.

**NTAN1 Antibody (C-term) Blocking Peptide - Protein Information**

Name NTAN1

**Function**

N-terminal asparagine deamidase that mediates deamidation of N-terminal asparagine residues to aspartate. Required for the ubiquitin-dependent turnover of intracellular proteins that initiate with Met-Asn. These proteins are acetylated on the retained initiator methionine and can subsequently be modified by the removal of N-acetyl methionine by acylaminoacid hydrolase (AAH). Conversion of the resulting N-terminal asparagine to aspartate by NTAN1/PNAD renders the protein susceptible to arginylation, polyubiquitination and degradation as specified by the N-end rule. This enzyme does not act on substrates with internal or C-terminal asparagines and does not act on glutamine residues in any position, nor on acetylated N-terminal peptidyl Asn.

**Cellular Location**

Cytoplasm {ECO:0000250|UniProtKB:Q28955}.

**NTAN1 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

#### **NTAN1 Antibody (C-term) Blocking Peptide - Images**

#### **NTAN1 Antibody (C-term) Blocking Peptide - Background**

Side-chain deamidation of N-terminal asparagine residues to aspartate. Required for the ubiquitin-dependent turnover of intracellular proteins that initiate with Met-Asn. These proteins are acetylated on the retained initiator methionine and can subsequently be modified by the removal of N-acetyl methionine by acylaminoacid hydrolase (AAH). Conversion of the resulting N-terminal asparagine to aspartate by PNAD renders the protein susceptible to arginylation, polyubiquitination and degradation as specified by the N-end rule. This enzyme does not act on substrates with internal or C-terminal asparagines and does not act on glutamine residues in any position (By similarity).

#### **NTAN1 Antibody (C-term) Blocking Peptide - References**

Okada, Y., et al. Hum. Mol. Genet. 19(11):2303-2312(2010)Kamdem, L.K., et al. Pharmacogenet. Genomics 18(6):507-514(2008)Lamesch, P., et al. Genomics 89(3):307-315(2007)Grigoryev, S., et al. J. Biol. Chem. 271(45):28521-28532(1996)