

AGTPBP1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP17555a**Specification**

AGTPBP1 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q9UPW5](#)**AGTPBP1 Antibody (N-term) Blocking Peptide - Additional Information**

Gene ID 23287

Other Names

Cytosolic carboxypeptidase 1, 3417-, ATP/GTP-binding protein 1, Nervous system nuclear protein induced by axotomy protein 1 homolog, AGTPBP1, CCP1, KIAA1035, NNA1

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.

AGTPBP1 Antibody (N-term) Blocking Peptide - Protein InformationName AGTPBP1 ([HGNC:17258](#))**Function**

Metalloprotease that mediates protein deglutamylation of tubulin and non-tubulin target proteins (PubMed: [22170066](http://www.uniprot.org/citations/22170066), PubMed: [24022482](http://www.uniprot.org/citations/24022482), PubMed: [30420557](http://www.uniprot.org/citations/30420557)). Catalyzes the removal of polyglutamate side chains present on the gamma-carboxyl group of glutamate residues within the C-terminal tail of alpha- and beta-tubulin (PubMed: [22170066](http://www.uniprot.org/citations/22170066), PubMed: [24022482](http://www.uniprot.org/citations/24022482), PubMed: [30420557](http://www.uniprot.org/citations/30420557)). Specifically cleaves tubulin long-side-chains, while it is not able to remove the branching point glutamate (PubMed: [24022482](http://www.uniprot.org/citations/24022482)). Also catalyzes the removal of polyglutamate residues from the carboxy-terminus of alpha-tubulin as well as non-tubulin proteins such as MYLK (PubMed: [22170066](http://www.uniprot.org/citations/22170066)). Involved in KLF4 deglutamylation which promotes KLF4 proteasome-mediated degradation, thereby negatively regulating cell pluripotency maintenance and embryogenesis (PubMed: [22170066](#)).

href="http://www.uniprot.org/citations/29593216" target="_blank">29593216).

Cellular Location

Cytoplasm. Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q641K1}. Nucleus Mitochondrion {ECO:0000250|UniProtKB:Q641K1}. Note=Localizes in both the cytoplasm and nuclei of interphase and dividing cells

AGTPBP1 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

AGTPBP1 Antibody (N-term) Blocking Peptide - Images**AGTPBP1 Antibody (N-term) Blocking Peptide - Background**

NNA1 is a zinc carboxypeptidase that contains nuclearlocalization signals and an ATP/GTP-binding motif that wasinitially cloned from regenerating spinal cord neurons of themouse.

AGTPBP1 Antibody (N-term) Blocking Peptide - References

Lim, J., et al. Cell 125(4):801-814(2006)Beausoleil, S.A., et al. Proc. Natl. Acad. Sci. U.S.A. 101(33):12130-12135(2004)Fernandez-Gonzalez, A., et al. Science 295(5561):1904-1906(2002)Harris, A., et al. Mol. Cell. Neurosci. 16(5):578-596(2000)