

**AGTPBP1 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP17555a****Specification**

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**AGTPBP1 Antibody (N-term) - Product Information**

|                   |                             |
|-------------------|-----------------------------|
| Application       | WB,E                        |
| Primary Accession | <a href="#">O9UPW5</a>      |
| Other Accession   | <a href="#">NP_056054.2</a> |
| Reactivity        | Human, Mouse                |
| Host              | Rabbit                      |
| Clonality         | Polyclonal                  |
| Isotype           | Rabbit IgG                  |
| Calculated MW     | 138448                      |
| Antigen Region    | 363-392                     |

**AGTPBP1 Antibody (N-term) - 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

**Target/Specificity**

This AGTPBP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 363-392 amino acids from the N-terminal region of human AGTPBP1.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

AGTPBP1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**AGTPBP1 Antibody (N-term) - Protein Information****Name** AGTPBP1 ([HGNC:17258](#))

**Function** Metalloprotease that mediates protein deglutamylation of tubulin and non-tubulin target proteins (PubMed:[22170066](#), PubMed:[24022482](#), PubMed:[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](#), PubMed:[24022482](#), PubMed:[30420557](#)). Specifically cleaves tubulin long-side-chains, while it is not able to remove the branching point glutamate (PubMed:[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](#)). Involved in KLF4 deglutamylation which promotes KLF4 proteasome-mediated degradation, thereby negatively regulating cell pluripotency maintenance and embryogenesis (PubMed:[29593216](#)).

#### Cellular Location

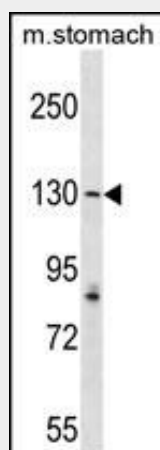
Cytoplasm. Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q641K1}. Nucleus Mitochondrion {ECO:0000250|UniProtKB:Q641K1}. Note=Localizes in both the cytoplasm and nuclei of interphase and dividing cells

#### AGTPBP1 Antibody (N-term) - 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](#)

#### AGTPBP1 Antibody (N-term) - Images



AGTPBP1 Antibody (N-term) (Cat. #AP17555a) western blot analysis in mouse stomach tissue lysates (35ug/lane). This demonstrates the AGTPBP1 antibody detected the AGTPBP1 protein (arrow).

#### AGTPBP1 Antibody (N-term) - Background

NNA1 is a zinc carboxypeptidase that contains nuclear localization signals and an ATP/GTP-binding motif that was initially cloned from regenerating spinal cord neurons of the

mouse.

#### **AGTPBP1 Antibody (N-term) - 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)