

# AGTPBP1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP17555a

## Product Information

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Application	WB, E
Primary Accession	<a href="#">Q9UPW5</a>
Other Accession	<a href="#">NP_056054.2</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB36613
Calculated MW	138448
Antigen Region	363-392

## Additional Information

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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.

## Protein Information

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Name	AGTPBP1 ( <a href="#">HGNC:17258</a> )
Function	Metalloprotease that mediates protein dephosphorylation of tubulin and non-tubulin target proteins (PubMed: <a href="#">22170066</a> , PubMed: <a href="#">24022482</a> ,

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

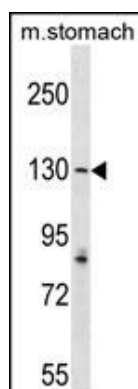
## Background

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.

## 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)

## 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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.