10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Agtpbp1 Antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI13761

Product Information

Application	WB
Primary Accession	Q641K1
Other Accession	NM_023328, NP_075817
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	137197

Additional Information

Gene ID	67269
Alias Symbol	1700020N17Rik, 2310001G17Rik, 2900054O13Rik, 4930445M19Rik, 5730402G09Rik, BB114605, CCP1, Nna1, mKIAA1035, nmf243, pcd
Other Names	Cytosolic carboxypeptidase 1, 3.4.17.-, ATP/GTP-binding protein 1, Nervous system nuclear protein induced by axotomy protein 1, Agtpbp1, Ccp1, Nna1
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Agtpbp1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Agtpbp1 Antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Agtpbp1 {ECO:0000312|MGI:MGI:2159437}
Function	Metallocarboxypeptidase that mediates protein deglutamylation of tubulin and non-tubulin target proteins (PubMed:21074048, PubMed:22170066, PubMed:25103237, PubMed:29593216, 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:25103237, PubMed:30420557). Specifically cleaves tubulin long-side-chains, while it is not able to remove the branching point glutamate (PubMed:21074048). Also catalyzes the removal of polyglutamate residues from the carboxy-terminus of alpha-tubulin as well as

non-tubulin proteins such as MYLK (PubMed:21074048, PubMed:22170066). Involved in KLF4 deglutamylation which promotes KLF4 proteasome-mediated degradation, thereby negatively regulating cell pluripotency maintenance and embryogenesis (PubMed:29593216).

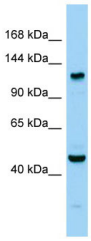
Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:Q9UPW5}. Cytoplasm, cytosol. Nucleus. Mitochondrion. Note=Localizes in both the cytoplasm and nuclei of interphase and dividing cells {ECO:0000250|UniProtKB:Q9UPW5}

Tissue Location

Widely expressed. Highly expressed in the cerebellum and cortex of adult mouse brain. Expressed at similar levels in both the cerebellum and the cortex throughout all developmental stages. Also expressed in sciatic nerve transection, spinal motor neurons undergoing axon regeneration, testis, heart, eye, lung, pancreas, intestine, stomach, pituitary, spleen, adrenal, kidney and in developing brain. Expression in cranial motor nuclei is the same as that observed in uninjured primary motor neurons. Expression is prevalent in sensory neurons and hippocampal CA3 neurons in addition to regenerating motor neurons.

Images



Host: Rabbit
Target Name: Agtpbp1
Sample Tissue: Mouse Testis lysates
Antibody Dilution: 1.0µg/ml