

Agtpbp1 Antibody - C-terminal region

Rabbit Polyclonal Antibody Catalog # AI13761

Product Information

Application WB Primary Accession Q641K1

Other Accession NM_023328, NP_075817

ReactivityHuman, 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:<u>21074048</u>, PubMed:<u>22170066</u>). Involved in KLF4 deglutamylation which promotes KLF4 proteasome-mediated degradation, thereby negatively regulating cell pluripotency maintenance and embryogenesis (PubMed:<u>29593216</u>).

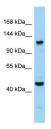
Cytoplasm {ECO:0000250 | UniProtKB:Q9UPW5}. Cytoplasm, cytosol. Nucleus. Mitochondrion. Note=Localizes in both the cytoplasm and nuclei of interphase and dividing cells {ECO:0000250 | UniProtKB:Q9UPW5}

Tissue Location

Cellular 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

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