

Tppp antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI11269**Specification**

Tppp antibody - C-terminal region - Product Information

Application	WB
Primary Accession	Q7TQD2
Other Accession	NM_182839 , NP_878259
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Dog
Predicted	Human, Mouse, Rat, Rabbit, Pig, Chicken, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	24kDa KDa

Tppp antibody - C-terminal region - Additional Information**Gene ID** 72948**Alias Symbol** **AI849835, 2900041A09Rik****Other Names**

Tubulin polymerization-promoting protein, TPPP, Tppp

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 100 ul of distilled water. Final anti-Tppp 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

Tppp antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Tppp antibody - C-terminal region - Protein Information**Name** Tppp {ECO:0000303|PubMed:18028908, ECO:0000312|MGI:MGI:1920198}**Function**

Regulator of microtubule dynamics that plays a key role in myelination by promoting elongation of the myelin sheath (PubMed:31522887). Acts as a microtubule nucleation factor in oligodendrocytes: specifically localizes to the postsynaptic Golgi apparatus region, also named Golgi outpost, and promotes microtubule nucleation, an important step for elongation of the myelin sheath (PubMed:31522887). Required for both uniform polarized growth of distal microtubules as well as directing the

branching of proximal processes (PubMed:31522887). Shows magnesium-dependent GTPase activity; the role of the GTPase activity is unclear (By similarity). In addition to microtubule nucleation activity, also involved in microtubule bundling and stabilization of existing microtubules, thereby maintaining the integrity of the microtubule network (PubMed:18028908). Regulates microtubule dynamics by promoting tubulin acetylation: acts by inhibiting the tubulin deacetylase activity of HDAC6 (By similarity). Also regulates cell migration: phosphorylation by ROCK1 inhibits interaction with HDAC6, resulting in decreased acetylation of tubulin and increased cell motility (By similarity). Plays a role in cell proliferation by regulating the G1/S-phase transition (By similarity). Involved in astral microtubule organization and mitotic spindle orientation during early stage of mitosis; this process is regulated by phosphorylation by LIMK2 (By similarity).

Cellular Location

Golgi outpost {ECO:0000250|UniProtKB:D3ZQL7}. Cytoplasm, cytoskeleton, microtubule organizing center {ECO:0000250|UniProtKB:D3ZQL7}. Cytoplasm, cytoskeleton. Nucleus Cytoplasm, cytoskeleton, spindle {ECO:0000250|UniProtKB:O94811} Note=Specifically localizes to the postsynaptic Golgi apparatus region, also named Golgi outpost, which shapes dendrite morphology by functioning as sites of centrosomal microtubule nucleation (By similarity). Mainly localizes to the cytoskeleton (PubMed:18028908) Also found in the nucleus; however, nuclear localization is unclear and requires additional evidences (PubMed:18028908). Localizes to glial Lewy bodies in the brains of individuals with synucleinopathies. During mitosis, colocalizes with LIMK2 at the mitotic spindle (By similarity) {ECO:0000250|UniProtKB:D3ZQL7, ECO:0000250|UniProtKB:O94811, ECO:0000269|PubMed:18028908}

Tissue Location

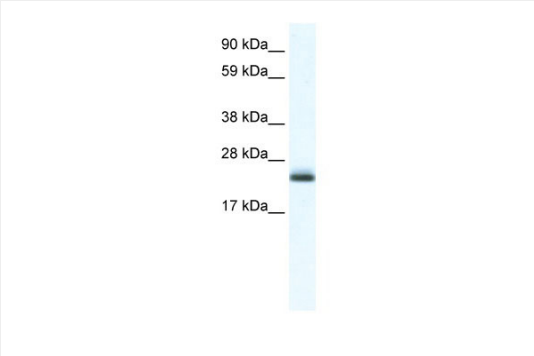
Widely expressed with higher expression in brain (at protein level).

Tppp antibody - C-terminal region - 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](#)

Tppp antibody - C-terminal region - Images



90 kDa
59 kDa
38 kDa
28 kDa
17 kDa

WB Suggested Anti-Tppp Antibody Titration: 1.25µg/ml
ELISA Titer: 1:312500
Positive Control: Human brain

Tppp antibody - C-terminal region - References

Tirian, L., et al., (2003) Proc. Natl. Acad. Sci. U.S.A. 100 (24), 13976-13981
Reconstitution and Storage: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.