

Ttbk2 antibody - N-terminal region

Rabbit Polyclonal Antibody

Catalog # AI10704

Product Information

Application	WB
Primary Accession	Q3UVR3
Other Accession	NM_001024856 , NP_001020027
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Dog, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Pig, Chicken, Dog, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	136770

Additional Information

Gene ID	140810
Alias Symbol	2610507N02Rik, AI326283, B930008N24Rik, KIAA0847, TTK, Ttbk, Ttbk1, mKIAA0847
Other Names	Tau-tubulin kinase 2, 2.7.11.1, Protein bartleby, Ttbk2, Bby, Kiaa0847, Ttbk1
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-Ttbk2 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	Ttbk2 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

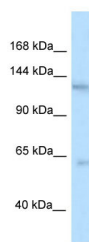
Name	Ttbk2
Synonyms	Bby, Kiaa0847, Ttbk1
Function	Serine/threonine kinase that acts as a key regulator of ciliogenesis: controls the initiation of ciliogenesis by binding to the distal end of the basal body and promoting the removal of CCP110, which caps the mother centriole, leading to the recruitment of IFT proteins, which build the ciliary axoneme. Has some substrate preference for proteins that are already phosphorylated on a Tyr residue at the +2 position relative to the phosphorylation site. Able to phosphorylate tau on serines in vitro (PubMed: 23141541). Phosphorylates MPHOSPH9 which promotes its ubiquitination and proteasomal degradation,

loss of MPHOSPH9 facilitates the removal of the CP110-CEP97 complex (a negative regulator of ciliogenesis) from the mother centrioles, promoting the initiation of ciliogenesis (By similarity). Required for recruitment of CPLANE2 and INTU to the mother centriole (PubMed:[29038301](#)).

Cellular Location

Cell projection, cilium. Cytoplasm, cytoskeleton, cilium basal body Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q6IQ55}. Nucleus {ECO:0000250|UniProtKB:Q6IQ55}. Note=Localizes at the transition zone, a region between the basal body and the ciliary axoneme (PubMed:29038301). May also be present in cytosol and, at lower level in the nucleus (By similarity). {ECO:0000250|UniProtKB:Q6IQ55, ECO:0000269|PubMed:29038301}

Images



WB Suggested Anti-Ttbk2 Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Thymus

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