

TTBK2 Rabbit pAb

CatalogNo: YN6100

| Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- WB

MW

- 137kD (Calculated)

Isotype

- IgG

| Recommended Dilution Ratios

WB 1:500-2000

| Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

| Basic Information

Clonality Polyclonal

| Immunogen Information

Immunogen Synthesized peptide derived from human TTBK2

Specificity This antibody detects endogenous levels of TTBK2 at Human, Mouse

| Target Information

Gene name TTBK2 KIAA0847

Protein Name	Tau-tubulin kinase 2 (EC 2.7.11.1)		
	Organism	Gene ID	UniProt ID
	Human	146057 ;	Q6IQ55 ;
	Mouse	140810 ;	Q3UVR3 ;
Cellular Localization	Cell projection, cilium . Cytoplasm, cytoskeleton, cilium basal body . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole. Cytoplasm, cytosol. Nucleus. Localizes to the transition zone in primary cilia in response to cell cycle signals that promote ciliogenesis (By similarity). May also be present in cytosol and, at lower level in the nucleus. .		
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 . 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 .		

Validation Data

Contact information

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TTBK2 Rabbit pAb

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