

Rabbit TTBK2 Polyclonal Antibody | anti-TTBK2 antibody

TTBK2 Antibody (N-term)

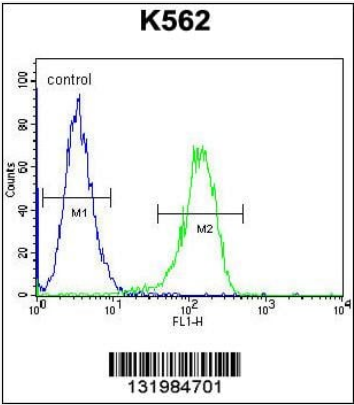
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA286485	Rabbit	Human (Predicted Reactivity: Mouse)	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

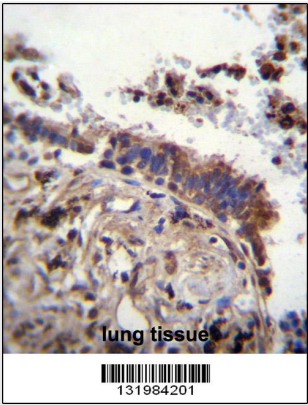
TTBK2; Polyclonal Antibody; TTBK2 Antibody (N-term); Tau-tubulin kinase 2; KIAA0847; anti-TTBK2 antibody

PRODUCT SPECIFICATIONS

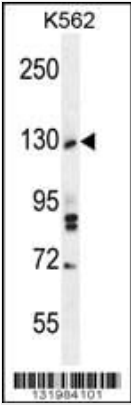
Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This TTBK2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 217-245 amino acids from the N-terminal region of human TTBK2.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	217-245
Sequence Length	1244
Applicable Applications for anti-TTBK2 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
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.
Cellular Location	Cell projection, cilium. Cytoplasm, cytoskeleton, cilium basal body. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole. Cytoplasm, cytosol. Nucleus. Note=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.
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



FCM/FACS (Flow Cytometry)
TTBK2 Antibody (N-term) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohiostchemistry)
TTBK2 Antibody (N-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human lung tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of TTBK2 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
TTBK2 Antibody (N-term) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the TTBK2 antibody detected the TTBK2 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-TTBK2 antibody	This gene encodes a serine-threonine kinase that putatively phosphorylates tau and tubulin proteins. Mutations in this gene cause spinocerebellar ataxia type 11 (SCA11); a neurodegenerative disease characterized by progressive ataxia and atrophy of the cerebellum and brainstem.
Product Categories/Family for anti-TTBK2 antibody	Neuroscience; Signal Transduction
References	Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) : Xu, Q., et al. Neurol. Sci. 31(1):107-109(2010) Edener, U., et al. J. Neurol. 256(11):1856-1859(2009) Houlden, H., et al. Nat. Genet. 39(12):1434-1436(2007) Kitano-Takahashi, M., et al. Acta Crystallogr. Sect. F Struct. Biol. Cryst. Commun. 63 (PT 7), 602-604 (2007) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	116812624
NCBI GeneID	146057
NCBI Accession #	NP_775771.3

NCBI GenBank Nucleotide #	NM_173500.3
UniProt Accession #	Q6IQ55; O94932; Q6ZN52; Q8IVV1
Molecular Weight	137412
NCBI Official Full Name	tau-tubulin kinase 2
NCBI Official Synonym Full Names	tau tubulin kinase 2
NCBI Official Symbol	TTBK2
NCBI Official Synonym Symbols	TTBK; SCA11
NCBI Protein Information	tau-tubulin kinase 2
UniProt Protein Name	Tau-tubulin kinase 2
UniProt Gene Name	TTBK2
UniProt Synonym Gene Names	KIAA0847
UniProt Entry Name	TTBK2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ttbk2-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/286485>