

Datasheet for 600-401-FS4**TTBK2 Antibody****Overview**

Description:	Anti-TTBK2 (RABBIT) Antibody - 600-401-FS4
Item No.:	600-401-FS4
Size:	100 µg
Applications:	ELISA, IHC
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Tau tubulin kinase (TTBK2) is a serine/threonine kinase whose substrates are thought to include the tau and tubulin proteins. Mutations in the TTBK2 gene cause spinocerebellar ataxia type 11 (SCA11), a neurodegenerative disease characterized by progressive ataxia and atrophy of the cerebellum and brainstem. Recent studies have shown that increased levels of TTBK2 expression in kidney carcinoma and melanoma cell lines increases resistance to the chemotherapeutic agent Sunitinib, and that reduction of TTBK2 through the use of siRNA sensitized these cell lines to the effects of Sunitinib, suggesting that TTBK2 can be used as a resistance marker as well a potential target to overcome resistance.
Synonyms:	TTBK2 Antibody, TTBK, SCA11, KIAA0847, Tau-tubulin kinase 2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TTBK2
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-TTBK2 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid synthetic peptide near the C-terminus of human TTBK2.

Purity/Specificity: Anti-TTBK2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. TTBK2 antibody is human specific. At least four isoforms of TTBK2 are known to exist; this antibody will detect only the two largest isoforms.

Relevant Links:

- [UniProtKB - Q6IQ55](#)
- [GeneID - 146057](#)
- [NCBI - NP_775771.3](#)

Application Details

Tested Applications: ELISA, IHC

Application Note: Anti-TTBK2 Antibody has been tested for use in ELISA and Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 137 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: User Optimized

IHC: 5 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1 mg/mL by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

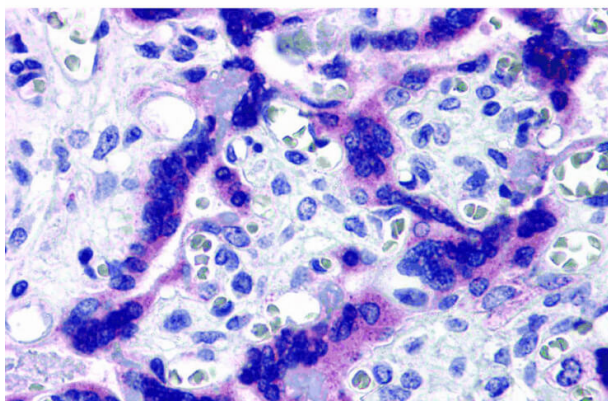
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

Immunohistochemistry of TTBK2 antibody. Tissue: human placenta tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: TTBK2 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: TTBK2 is cytoplasmic. Staining: TTBK2 as precipitated blue signal with hematoxylin purple nuclear counterstain.

Disclaimer

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