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## **TTBK1 Antibody**

**Subcategory:** Rabbit Polyclonal Antibody

**Cat. No.:** 254019

**Unit:** 0.1 mg

**Description:**

Tau tubulin kinase (TTBK1) belongs to the casein kinase 1 superfamily and is involved in the phosphorylation of specific serine/threonine residues in paired helical filaments of the tau protein. It is specifically expressed in the brain and induces tau aggregation in human neuronal cells in a dose-dependent manner. TTBK1 levels have been found to be upregulated in the brains of Alzheimer's disease (AD) patients, and mice expressing human TTBK1 protein showed significant age-dependent memory impairment. These mice displayed increased levels of the CDK5 activators p25 and p35, and reduced levels of the NMDA receptor types 2B and 2D, suggesting that TTBK1 may play a role in memory dysfunction in AD patients. Multiple isoforms of TTBK1 are known to exist. This antibody is predicted to not cross-react with TTBK2.

**Isotype:** Rabbit Ig

**Applications:** E, WB, IHC

**Species Reactivity:** H, M

**Format:** Each vial contains 0.1 ml IgG in PBS pH 7.4 with 0.02% sodium azide. Antibody was purified by immunogen affinity chromatography.

**Alternate Names:** TTBK1; Tau tubulin kinase 1; brain derived tau kinase; BDTK

**Accession No.:** Q5TCY1

**Antigen:** KLH-conjugated synthetic peptide encompassing a sequence within human TTBK1.

**Application Notes:** E: 1:500-1:1,000; WB: 1:100-1:500; IHC: 1:00-1:500

**Storage:** Store at -20°C. Minimize freeze-thaw cycles.

Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.