

## TTBK2 recombinant protein

TTBK2, Active

|                              |                                 |                                     |
|------------------------------|---------------------------------|-------------------------------------|
| CATALOG #<br><b>AAA74063</b> | HOST<br><b>Sf9 insect cells</b> | APPLICATIONS<br><b>Western Blot</b> |
|------------------------------|---------------------------------|-------------------------------------|

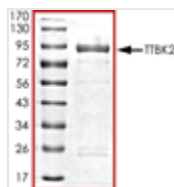
### PRODUCT SYNONYMS

TTBK2; Active; mKIAA0847; TTBK; TTBK1; TTK; TTBK2 recombinant protein

### PRODUCT SPECIFICATIONS

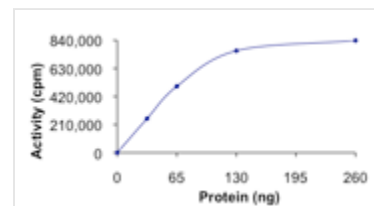
|                                                       |                                                                                                                                                                                                                                                |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                  | Sf9 insect cells                                                                                                                                                                                                                               |
| Form/Format                                           | Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.                                                                                                            |
| Applicable Applications for TTBK2 recombinant protein | WB (Western Blot), Kinase Assay                                                                                                                                                                                                                |
| Tag                                                   | GST                                                                                                                                                                                                                                            |
| Species                                               | Mouse                                                                                                                                                                                                                                          |
| Dry Ice Note                                          | The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.                                                                                                                                             |
| Preparation and Storage                               | Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. |

### IMAGES



#### SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



#### Activity

Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

### ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for TTBK2 recombinant protein | Recombinant mouse TTBK2 (70-538) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The TTBK2 gene accession number is NM_080788.<br>TTBK2 or tau tubulin kinase 2 is a serine-threonine kinase that putatively phosphorylates tau and tubulin proteins. TTBK2 is a member of the casein kinase (CK1) group of eukaryotic protein kinases that is involved in tau phosphorylation and aggregation (1). Mutations in TTBK2 cause spinocerebellar ataxia type 11 (SCA11)(a neurodegenerative disease characterized by progressive ataxia and atrophy of the cerebellum and brainstem)(2). |
| Product Categories/Family for TTBK2 recombinant protein   | <a href="#">Protein Kinases</a> ; <a href="#">Invasion/Metastasis</a> ; <a href="#">Neurobiology</a> ; <a href="#">p38 Pathway</a> ; <a href="#">Ser/Thr Kinases</a>                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## References

1. Sato, S. et: Tau-tubulin kinase 1 (TTBK1), a neuron-specific tau kinase candidate, is involved in tau phosphorylation and aggregation. J. Neurochem. 98: 1573-1584, 2006.
2. Houlden, H. et.al: Mutations in TTBK2, encoding a kinase implicated in tau phosphorylation, segregate with spinocerebellar ataxia type 11. Nature Genet. 39: 1434-1436, 2007.

## NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #

[NM\\_080788](#)

Molecular Weight

~88kDa

**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/ttbk2-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/74063>