

For Research Use Only

# TTBK2 Polyclonal antibody

Catalog Number: 15072-1-AP

Featured Product

7 Publications



## Basic Information

**Catalog Number:**

15072-1-AP

**Size:**

400 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG7108

**GenBank Accession Number:**

BC071556

**GeneID (NCBI):**

146057

**UNIPROT ID:**

Q6IQ55

**Full Name:**

tau tubulin kinase 2

**Calculated MW:**

137 kDa

**Observed MW:**

137-150 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

IHC 1:50-1:500

IF 1:20-1:200

## Applications

**Tested Applications:**

IF/ICC, IHC, WB, ELISA

**Cited Applications:**

WB, IF

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

WB : PC-3 cells, HeLa cells, SH-SY5Y cells

IHC : mouse brain tissue, human prostate cancer tissue

IF : SH-SY5Y cells,

## Background Information

TTBK2(tau tubulin kinase 2) plays an important role in the tau cascade and in spinocerebellar degeneration. The N-terminus of TTBK2 has a serine-threonine-tyrosine kinase domain, and a C-terminal region shows homology to TTBK1. TTBK1 and TTBK2 function as regulators of TDP-43 phosphorylation. TTBK1/2 may be attractive drug targets for therapeutic interventions in TDP-43 proteinopathies such as FTLD-TDP and ALS.(PMID:25473830). 15072-1-AP has a cross reaction with TTBK1.

## Notable Publications

Author	Pubmed ID	Journal	Application
Ebtissal M Khouj	31492759	J Cell Sci	IF
Min Liu	34480124	Cell Res	WB,IF
Si-Hyung Lee	27263857	Sci Rep	IF

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

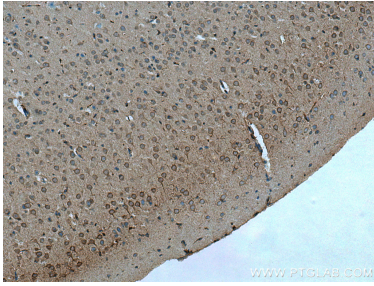
T: 4006900926

E: Proteintech-CN@ptglab.com

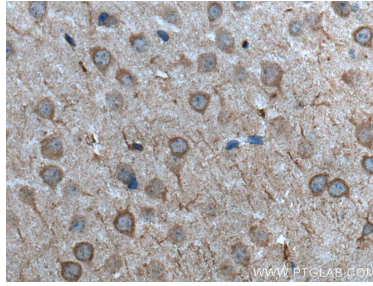
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

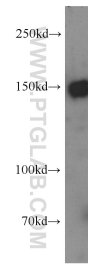
## Selected Validation Data



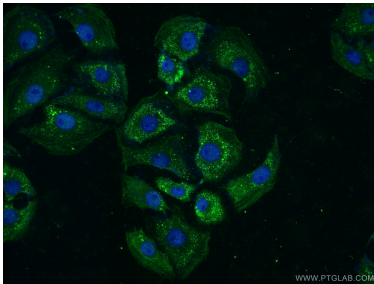
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 15072-1-AP (TTBK2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



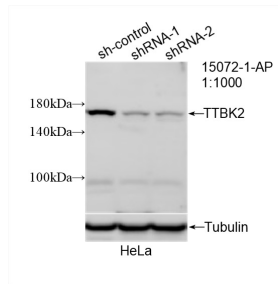
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 15072-1-AP (TTBK2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



PC-3 cells were subjected to SDS PAGE followed by western blot with 15072-1-AP (TTBK2 antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using 15072-1-AP (TTBK2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



WB result of TTBK2 antibody (15072-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TTBK2 transfected HeLa cells.