

For Research Use Only

# TrkB Recombinant antibody

Catalog Number: 80878-6-RR



## Basic Information

Catalog Number:

80878-6-RR

Concentration:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3790

GenBank Accession Number:

BC031835

GeneID (NCBI):

4915

UNIPROT ID:

Q16620

Full Name:

neurotrophic tyrosine kinase,  
receptor, type 2

Calculated MW:

822 aa, 92 kDa

Observed MW:

90-95 kDa

Purification Method:

Protein A purification

CloneNo.:

241473G5

Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 ug for 1.0-3.0 mg of total  
protein lysate

IHC 1:500-1:2000

## Applications

Tested Applications:

WB, IHC, IP, ELISA

Species Specificity:

human, mouse, rat

**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 : rat brain tissue, mouse cerebellum tissue

IP : mouse cerebellum tissue,

IHC : rat brain tissue,

## Background Information

Tropomyosin-related kinase B (TrkB) is a member of the neurotrophic tyrosine receptor kinase (NTRK) family. It is a single-pass type 1 membrane protein consisting of three domains: an extracellular ligand binding domain, a transmembrane domain, and an intracellular tyrosine kinase domain. TrkB is primarily expressed in the central and peripheral nervous systems. TrkB plays an important role in neural development and maintenance by regulating neuronal differentiation, proliferation, survival, migration, neurogenesis, and plasticity. This antibody raised against 41-433aa of human TrkB recognizes the full-length form (140-145 kDa) and truncated form (90-95 kDa) of TrkB (PMID: 23526925; 21039416).

## Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

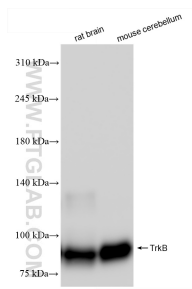
T: 4006900926

E: Proteintech-CN@ptglab.com

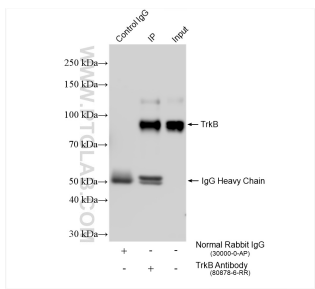
W: ptgcn.com

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

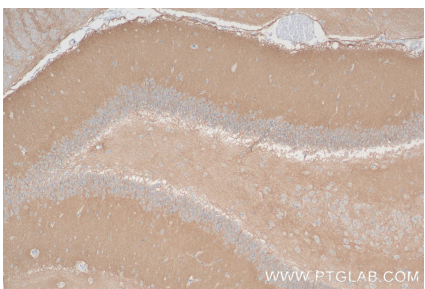
Selected Validation Data



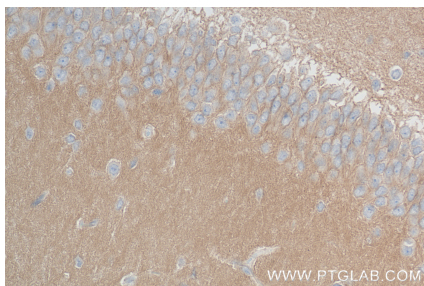
Various lysates were subjected to SDS PAGE followed by western blot with 80878-6-RR (TrkB antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



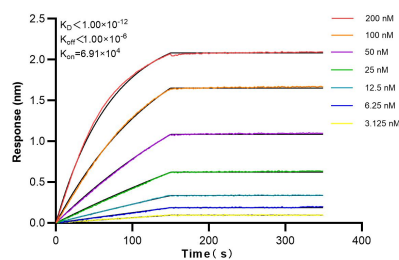
IP result of anti-TrkB (IP:80878-6-RR, 4ug; Detection:80878-6-RR 1:4000) with mouse cerebellum tissue lysate 2000 ug.



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 80878-6-RR (TrkB antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 80878-6-RR (TrkB antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 80878-6-RR against Human TrkB were performed. The affinity constant is below 1 pM.