

For Research Use Only

TrkB Polyclonal antibody

Catalog Number: 29961-1-AP

1 Publications



Basic Information

Catalog Number:

29961-1-AP

Size:

600 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG32196

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, 140-145 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:1000-1:4000

IF-P 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF-P, ELISA

Cited Applications:

WB

Species Specificity:

Human, Mouse, Rat

Cited Species:

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 : mouse brain tissue, rat brain tissue, mouse
cerebellum tissue

IHC : mouse cerebellum tissue, mouse brain tissue

IF-P : mouse 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 through regulating neuronal differentiation, proliferation, survival, migration, neurogenesis, and plasticity. This antibody raised against 238-430 aa of human TrkB recognizes full length form (140-145 kDa) and truncated form (90-95 kDa) of TrkB (PMID: 23526925; 21039416).

Notable Publications

Author	Pubmed ID	Journal	Application
Hanrong Cheng	39587803	J Cell Biochem	WB

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:

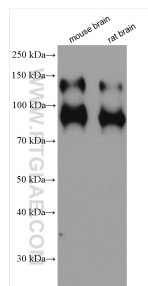
T: 4006900926

E: Proteintech-CN@ptglab.com

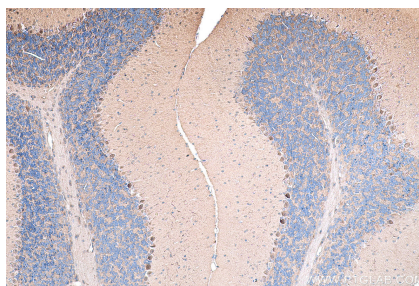
W: ptgcn.com

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

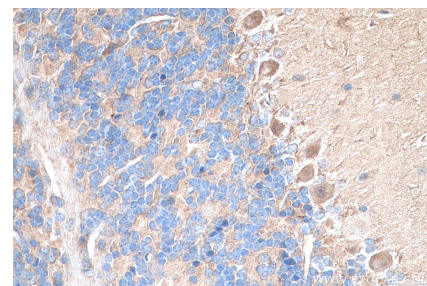
Selected Validation Data



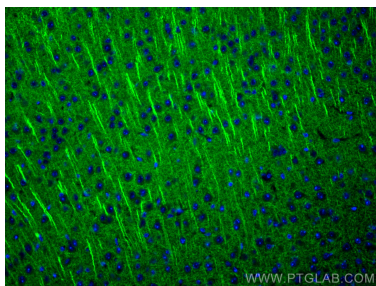
Various lysates were subjected to SDS PAGE followed by western blot with 29961-1-AP (NTRK2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 29961-1-AP (TrkB antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 29961-1-AP (TrkB antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using TrkB antibody (29961-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).