

For Research Use Only

# TrkB Polyclonal antibody

Catalog Number: 13129-1-AP

70 Publications



## Basic Information

### Catalog Number:

13129-1-AP

### Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

### 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, 140-145 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:6000

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

IHC 1:300-1:1200

IF/ICC 1:10-1:100

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, CoIP, Peptide array

### Species Specificity:

human, mouse, rat, pig

### Cited Species:

human, mouse, rat, rabbit, zebrafish

**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, human cerebellum tissue, human stomach tissue, mouse spinal cord tissue, pig cerebellum tissue, rat brain tissue, mouse cerebellum tissue

**IP**: mouse cerebellum tissue,

**IHC**: mouse brain tissue, mouse cerebellum tissue

**IF/ICC**: SH-SY5Y cells,

## 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 41-433aa 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
Meng Jin	30195910	Fish Shellfish Immunol	WB
Chunling Yuan	30389579	Biochim Biophys Acta Mol Basis Dis	WB
Katherine Aby	34678261	Life Sci	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

\*\*\* 20ul sizes contain 0.1% BSA

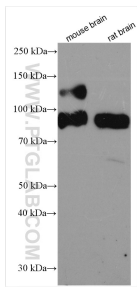
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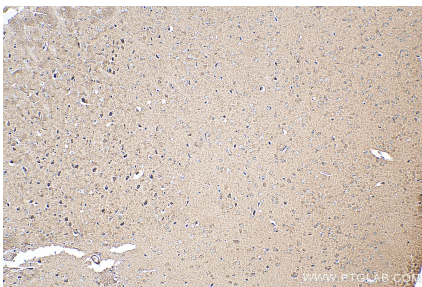
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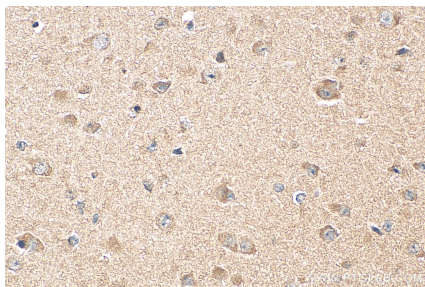
Selected Validation Data



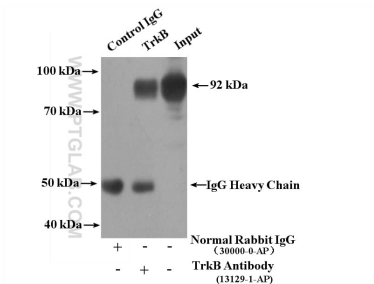
Various lysates were subjected to SDS PAGE followed by western blot with 13129-1-AP (TrkB antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



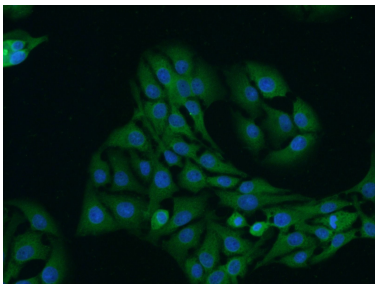
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 13129-1-AP (TrkB antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 13129-1-AP (TrkB antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-TrkB (IP:13129-1-AP, 4ug; Detection:13129-1-AP 1:300) with mouse cerebellum tissue lysate 4000ug.



Immunofluorescent analysis of SH-SY5Y cells using 13129-1-AP (TrkB antibody) at dilution of 1:25 and Coralite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).