

For Research Use Only

TrkB Recombinant antibody

Catalog Number: 80878-6-RR



Basic Information

Catalog Number: 80878-6-RR	GenBank Accession Number: BC031835	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 4915	CloneNo.: 241473G5
Source: Rabbit	UNIPROT ID: Q16620	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
Isotype: IgG	Full Name: neurotrophic tyrosine kinase, receptor, type 2	
Immunogen Catalog Number: AG3790	Calculated MW: 822 aa, 92 kDa	
	Observed MW: 90-95 kDa	

Applications

Tested Applications: WB, IHC, IP, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : rat brain tissue, mouse cerebellum tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	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

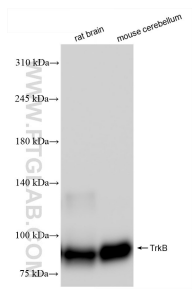
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

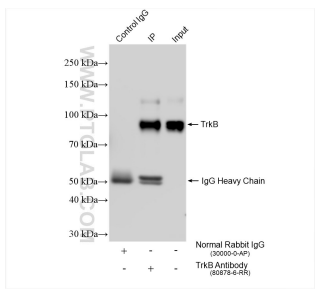
For technical support and original validation data for this product please contact:
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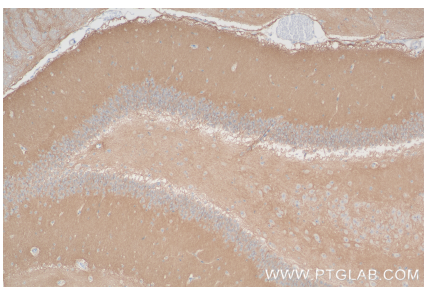
Selected Validation Data



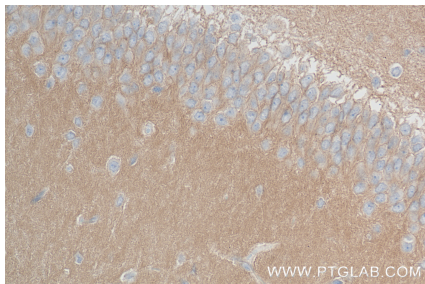
Various lysates were subjected to SDS PAGE followed by western blot with 80878-6-RR (TrkB antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



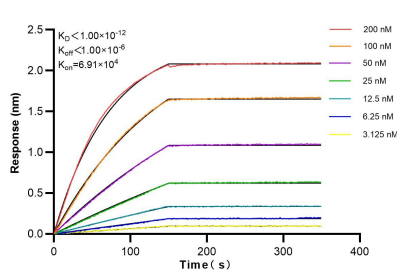
IP result of anti-TrkB (IP:80878-6-RR, 4ug; Detection:80878-6-RR 1:4000) with mouse cerebellum tissue lysate 2000 ug.



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.