

For Research Use Only

TrkB Recombinant antibody, PBS Only

Catalog Number: 80878-6-PBS



Basic Information

Catalog Number: 80878-6-PBS	GenBank Accession Number: BC031835	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 4915	CloneNo.: 241473G5
Source: Rabbit	UNIPROT ID: Q16620	
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, IP, Indirect ELISA

Species Specificity:
human, mouse, rat

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

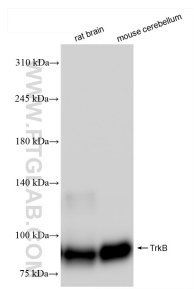
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

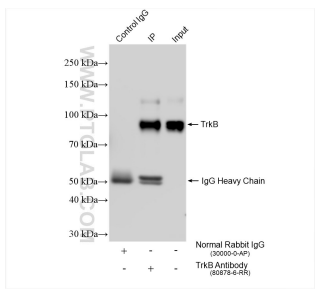
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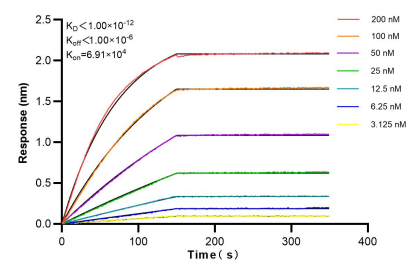
Selected Validation Data



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. This data was developed using the same antibody clone with 80878-6-PBS in a different storage buffer formulation.



IP result of anti-TrkB (IP:80878-6-RR, 4ug; Detection:80878-6-RR 1:4000) with mouse cerebellum tissue lysate 2000 ug. This data was developed using the same antibody clone with 80878-6-PBS in a different storage buffer formulation.



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