

For Research Use Only

TrkB Polyclonal antibody

Catalog Number: 29961-1-AP

2 Publications



Basic Information

Catalog Number: 29961-1-AP	GenBank Accession Number: BC031835	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 800 ug/ml by Nanodrop;	GeneID (NCBI): 4915	Recommended Dilutions: WB 1:500-1:2000 IHC 1:1000-1:4000 IF-P 1:50-1:500
Source: Rabbit	UNIPROT ID: Q16620	
Isotype: IgG	Full Name: neurotrophic tyrosine kinase, receptor, type 2	
Immunogen Catalog Number: AG32196	Calculated MW: 822 aa, 92 kDa	
	Observed MW: 90-95 kDa, 140-145 kDa	

Applications

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

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
Lijun Luo	39531192	Mol Neurobiol	WB

Storage

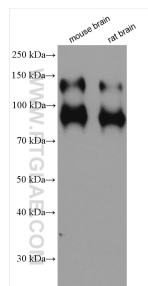
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

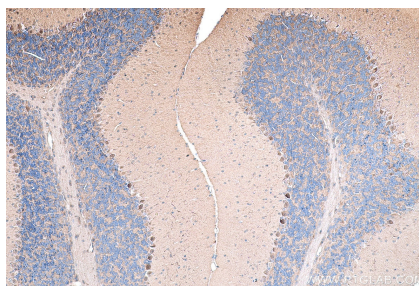
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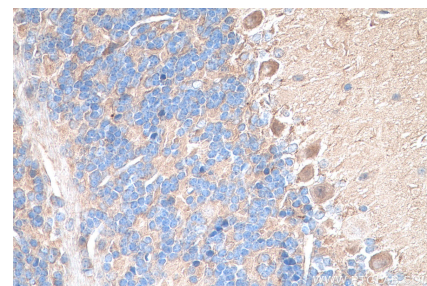
Selected Validation Data



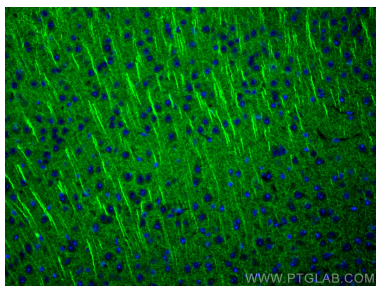
Various lysates were subjected to SDS PAGE followed by western blot with 29961-1-AP (NTRK2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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).