bs-4989R

[Primary Antibody]

BDNF Rabbit pAb



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– DATASHEET		400-901-9800
Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000)
Clonality: Polyclonal		IHC-P (1:50-200) IHC-F (1:50-200)
GenelD: 627	SWISS: P23560	IF (1:50-200)
Target: BDNF		Reactivity: Human, Mouse, Rat
Immunogen: KLH conjugated sy 151-247/247.	nthetic peptide derived from human BDNF:	
Purification: affinity purified by	Protein A	
Concentration: 1mg/ml		Predicted MW.: ^{13/27 kDa}
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		Subcellular Location: Secreted
Background: Neurotrophins function to regulate naturally occurring cell death of neurons during development. The prototype neurotrophin is nerve growth factor (NGF), originally discovered in the 1950s as a soluble peptide promoting the survival of, and neurite outgrowth from, sympathetic ganglia. More recently, three additional structurally homologous neurotrophic factors have been identified. These include brain-derived neurotrophic factor (BDNF), neurotrophin-3 (NT-3) and neurotrophin-4 (NT-4), also designated NT-5. These various neurotrophins stimulate the in vitro survival of distinct but partially overlapping populations of neurons. The Trk A receptor is the preferential receptor for NGF, but also binds NT-3 and NT-4. The Trk B receptor binds equally well to both BDNF and NT-4 and to a lesser extent NT-3, while the Trk C receptor only binds NT-3. BDNF promotes the survival of neuronal populations that are all located either in the central nervous system or directly connected to it. Belongs to the NGF-beta family.		

— VALIDATION IMAGES



25 ug total protein per lane of various lysates (see on figure) probed with BDNF polyclonal antibody, unconjugated (bs-4989R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Human Left temporal lobe; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with BDNF Polyclonal Antibody, Unconjugated (bs-4989R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Mouse Cerebellum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with BDNF Polyclonal Antibody, Unconjugated (bs-4989R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.

- SELECTED CITATIONS -

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- [IF=9.584] Liu Sumei. et al. Suppression of TGFβR-Smad3 pathway alleviates the syrinx induced by syringomyelia. CELL BIOSCI. 2023 Dec;13(1):1-13 IF ;Rat. 37248485
- **[IF=7.59]** Yuanxin Zhai. et al. High-efficiency Brain-targeted Intranasal Delivery of BDNF Mediated by Engineered Exosomes to Promote Remyelination. BIOMATER SCI-UK. 2022 Aug;: IF ;MOUSE. 36039673
- [IF=6.706] Pallavi Gurung. et al. Euonymus alatus Twig Extract Protects against Scopolamine-Induced Changes in Brain and Brain-Derived Cells via Cholinergic and BDNF Pathways. NUTRIENTS. 2023 Jan;15(1):128 WB ;Mouse, Rat. 36615789