

BDNF Rabbit mAb

Catalog No: #48755



Package Size: #48755-1 50ul #48755-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

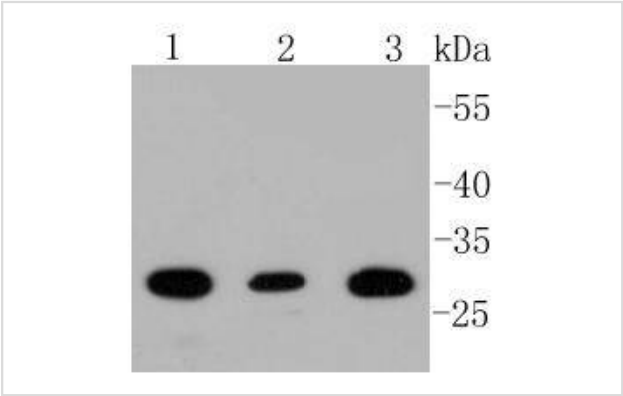
Description

Product Name	BDNF Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SJ12-09
Purification	ProA affinity purified
Applications	WB, IHC, ICC/IF
Species Reactivity	Human;Mouse;Rat;Zebrafish
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	Abrineurin antibody ANON2 antibody BDNF antibody BDNF_HUMAN antibody Brain Derived Neurotrophic Factor antibody Brain-derived neurotrophic factor antibody BULN2 antibody MGC34632 antibody Neurotrophin antibody
Accession No.	Swiss-Prot#:P23560
Calculated MW	28 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

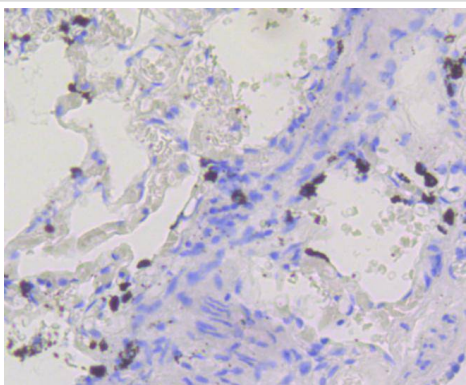
Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200ICC: 1:50-1:200

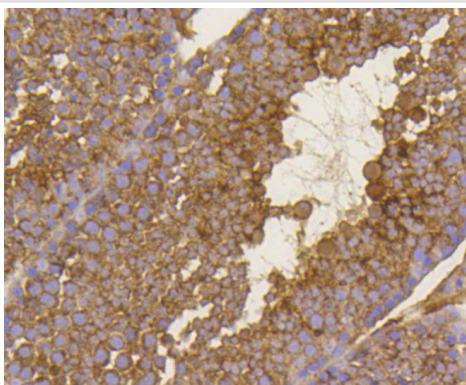
Images



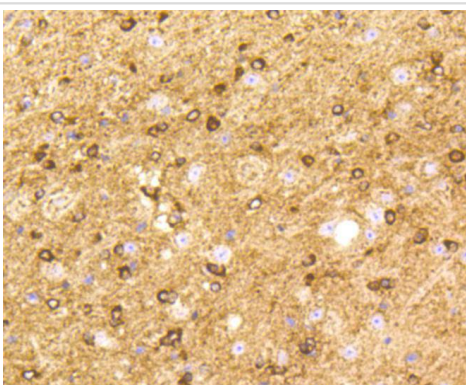
Western blot analysis of BDNF on different lysates using anti-BDNF antibody at 1/1,000 dilution. Positive control: Lane 1: SHG-44 Lane 2: A172 Lane 3: Mouse brain



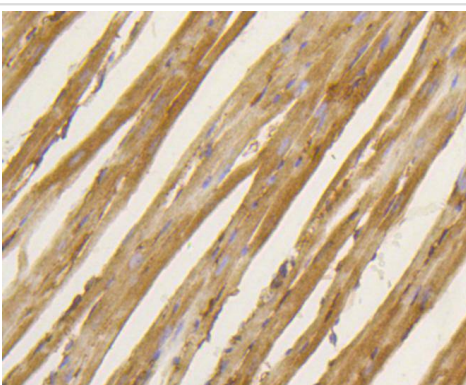
Immunohistochemical analysis of paraffin-embedded human lung tissue using anti-BDNF antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-BDNF antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-BDNF antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue using anti-BDNF antibody. Counter stained with hematoxylin.

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. 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 cell surface receptors through which neurotrophins mediate their activity have been identified. For instance, the Trk A receptor is the preferential receptor for NGF, but also binds NT-3 and NT-4. The Trk B receptor binds both BDNF and NT-4 equally well, and binds NT-3 to a lesser extent, while the Trk C receptor only binds NT-3.

References

1. Adzic, M. et al. 2015. The contribution of hypothalamic neuroendocrine, neuroplastic and neuroinflammatory processes to lipopolysaccharide-induced depressive-like behaviour in female and male rats: Involvement of glucocorticoid receptor and C/EBP- β . Behavioural brain research. 291: 130-139.
2. Xu, Q. et al. 2015. Sigma 1 receptor activation regulates brain-derived neurotrophic factor through NR2A-CaMKIV-TORC1 pathway to rescue the impairment of learning and memory induced by brain ischaemia/reperfusion. Psychopharmacology. 232: 1779-91.

Published Papers

el at., Naoxingqing tablet protects against cerebral ischemic/reperfusion injury by regulating ampka/NAMPT/SIRT1/PGC-1 α pathwayIn J Ethnopharmacol On 2024 Mar 25 by Xiao Sun?1,?Yunfeng Pan et al.. PMID:38159826, , (2023)

[PMID:38159826](#)

el at., Naoxingqing tablet protects against cerebral ischemic/reperfusion injury by regulating ampka/NAMPT/SIRT1/PGC-1 α pathway. In J Ethnopharmacol on 2024 Mar 25 by Xiao Sun, Yunfeng Pan, et al.. PMID:38159826, , (2024)

[PMID:38159826](#)

Hang Xian;Huan Guo;Yuan-Ying Liu;Sui-Bin Ma;Rui Zhao;Jian-Lei Zhang;Hang Zhang;Rou-Gang Xie;Xu-Cheng Guo;Jie Ren;Sheng-Xi Wu;Ceng Luo;Rui Cong el at., Nociceptor-localized KCC2 suppresses brachial plexus avulsion-induced neuropathic pain and related central sensitization., , (2025)

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[PMID:39736347](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.