

Anti-BDNF Rabbit Monoclonal Antibody

Catalog # ABO15146

Product Information

Application	WB, IHC, IF, ICC
Primary Accession	P23560
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid
Description	Anti-BDNF Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human, Mouse, Rat.

Additional Information

Gene ID	627
Other Names	Brain-derived neurotrophic factor, BDNF, Abrineurin, BDNF precursor form, ProBDNF, BDNF {ECO:0000303 PubMed:28397838, ECO:0000312 HGNC:HGNC:1033}
Calculated MW	27818
Application Details	WB 1:1000-1:2000 IHC 1:50-1:200 ICC/IF 1:50-1:200
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: 17B21
Immunogen	A synthesized peptide derived from human BDNF
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

Name	BDNF {ECO:0000303 PubMed:28397838, ECO:0000312 HGNC:HGNC:1033}
Function	Important signaling molecule that activates signaling cascades downstream of NTRK2 (PubMed: 11152678). During development, promotes the survival

and differentiation of selected neuronal populations of the peripheral and central nervous systems. Participates in axonal growth, pathfinding and in the modulation of dendritic growth and morphology. Major regulator of synaptic transmission and plasticity at adult synapses in many regions of the CNS. The versatility of BDNF is emphasized by its contribution to a range of adaptive neuronal responses including long-term potentiation (LTP), long-term depression (LTD), certain forms of short-term synaptic plasticity, as well as homeostatic regulation of intrinsic neuronal excitability.

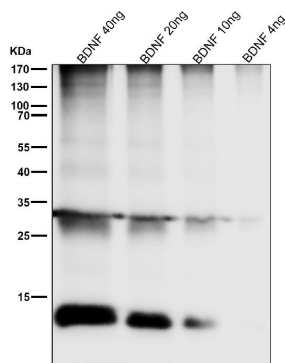
Cellular Location

Secreted

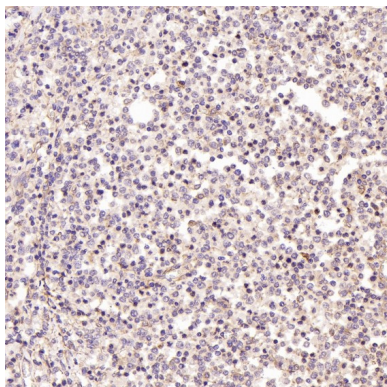
Tissue Location

Detected in blood plasma and in saliva (at protein level) (PubMed:11152678, PubMed:19467646). Brain. Highly expressed in hippocampus, amygdala, cerebral cortex and cerebellum. Also expressed in heart, lung, skeletal muscle, testis, prostate and placenta

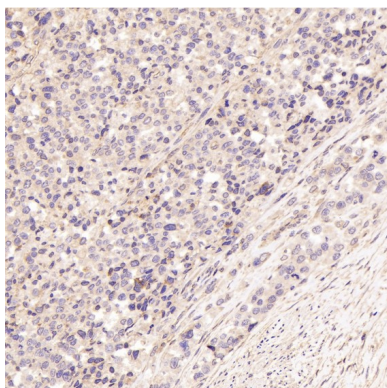
Images



All lanes use the Antibody at 1:1W dilution for 1 hour at room temperature.

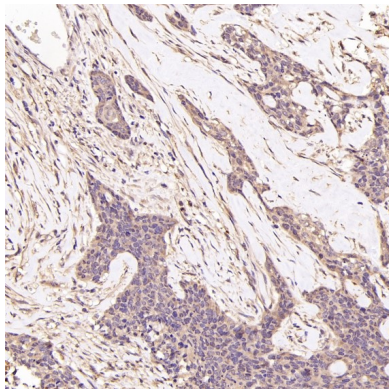


Immunohistochemical analysis of paraffin-embedded Human Hodgkin's lymphoma, using the Antibody at 1:1500 dilution.

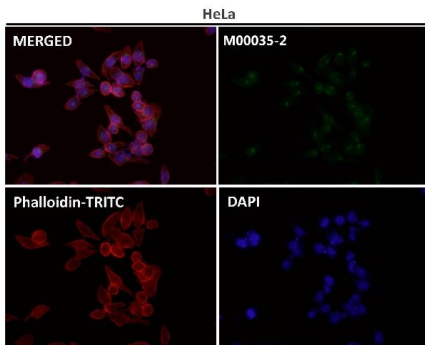


Immunohistochemical analysis of paraffin-embedded Human prostate cancer, using the Antibody at 1:1500 dilution.

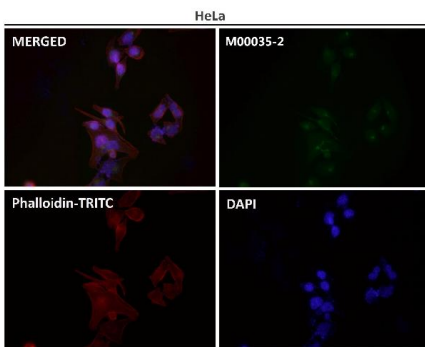
Immunohistochemical analysis of paraffin-embedded



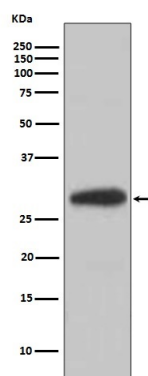
Human breast cancer, using the Antibody at 1:1500 dilution.



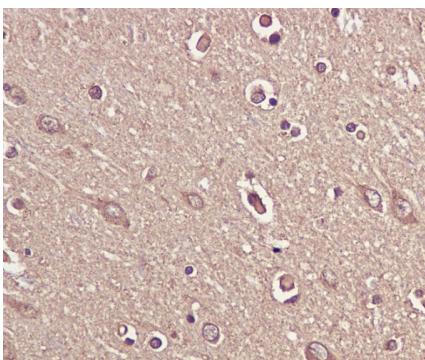
Immunofluorescent analysis using the Antibody at 1:150 dilution.



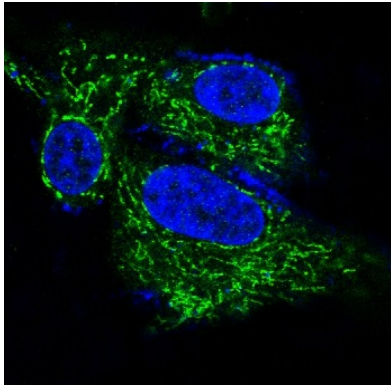
Immunofluorescent analysis using the Antibody at 1:500 dilution.



Western blot analysis of extracts of Mouse heart lysate, using BDNF antibody



Immunohistochemical analysis of paraffin-embedded human brain, using BDNF Antibody.



Immunofluorescent analysis of HeLa cells, using BDNF Antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.