

Anti-BDNF Rabbit Monoclonal Antibody
Catalog # ABO13335

Specification

Anti-BDNF Rabbit Monoclonal Antibody - Product Information

Application	WB, IHC, IF, ICC
Primary Accession	P23560
Host	Rabbit
Isotype	Rabbit 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.

Anti-BDNF Rabbit Monoclonal Antibody - 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 MW KDa

Application Details

WB 1:500-1:2000
IHC 1:50-1:200
ICC/IF 1:50-1:200

Subcellular Localization

Secreted.

Tissue Specificity

Brain. Highly expressed in hippocampus, amygdala, cerebral cortex and cerebellum. Also expressed in heart, lung, skeletal muscle, testis, prostate and placenta..

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.

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.

Anti-BDNF Rabbit Monoclonal Antibody - 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

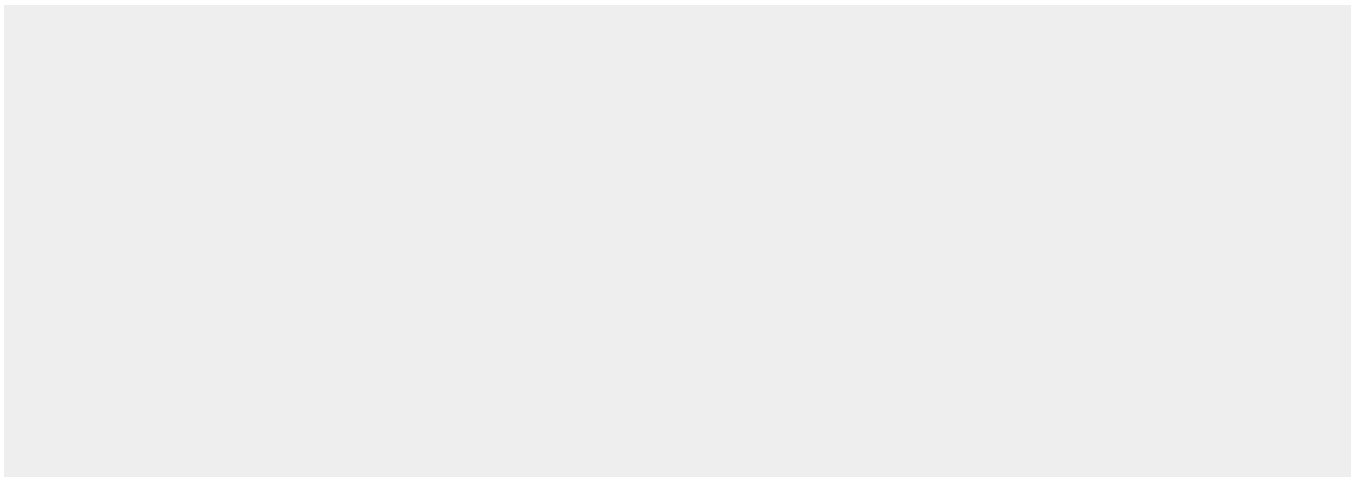
Detected in blood plasma and in saliva (at protein level) (PubMed:11152678, PubMed:19467646). Brain. Highly expressed in hippocampus, amygdala, cerebral cortex and cerebellum. Also expressed in heart, lung, skeletal muscle, testis, prostate and placenta

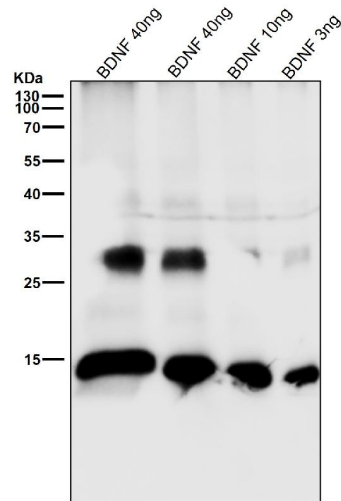
Anti-BDNF Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

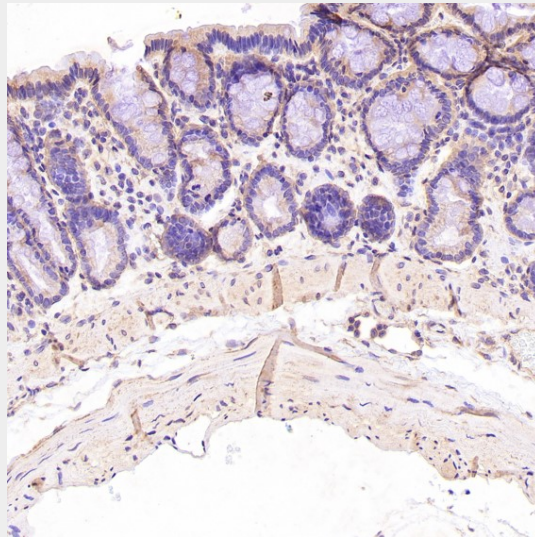
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-BDNF Rabbit Monoclonal Antibody - Images

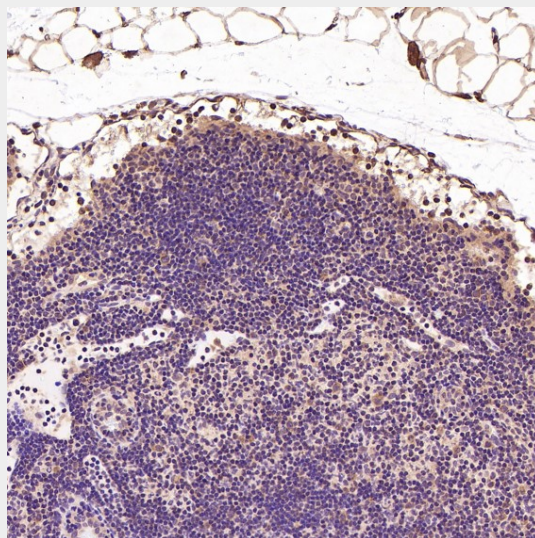




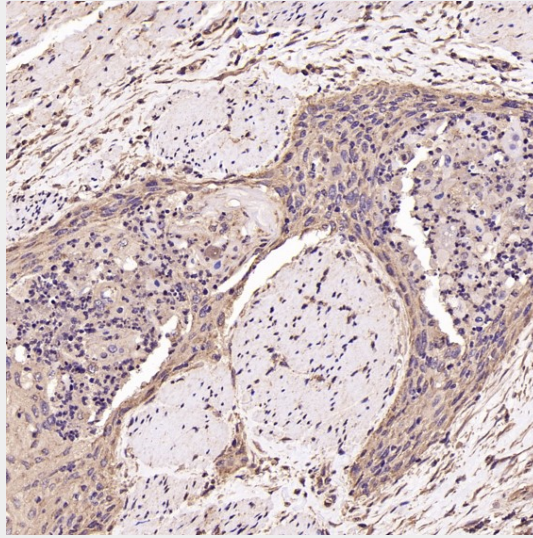
All lanes use the Antibody at 1:5k dilution for 1 hour at room temperature.



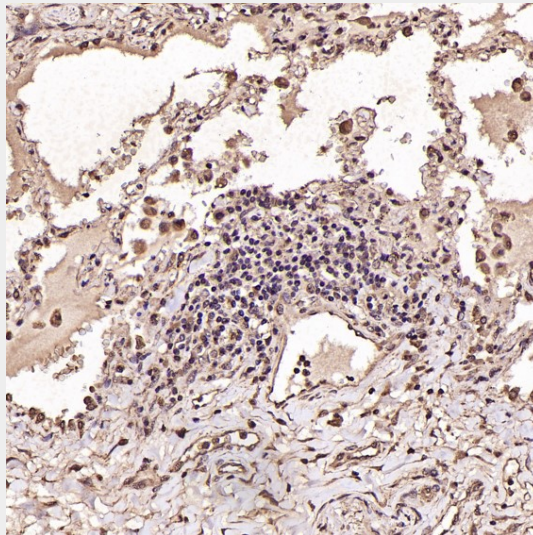
Immunohistochemical analysis of paraffin-embedded Rat stomach, using the Antibody at 1:50 dilution.



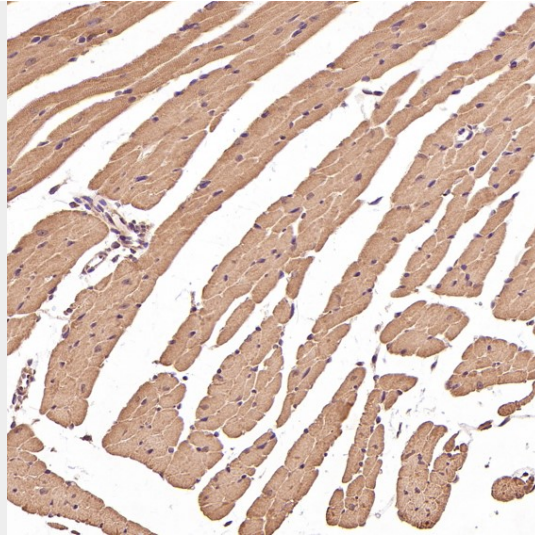
Immunohistochemical analysis of paraffin-embedded Rat pancreas, using the Antibody at 1:50 dilution.



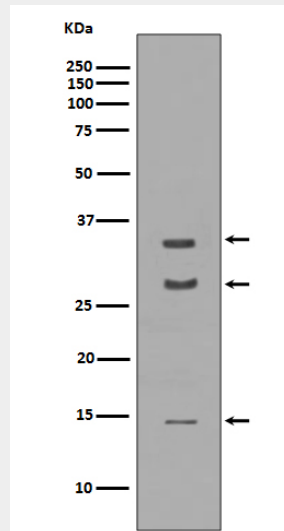
Immunohistochemical analysis of paraffin-embedded Human esophageal carcinoma, using the Antibody at 1:50 dilution.



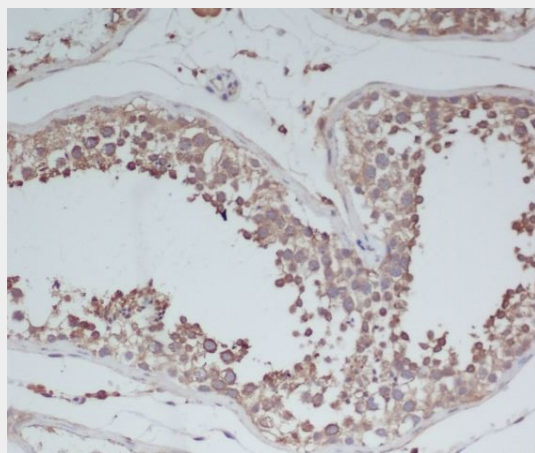
Immunohistochemical analysis of paraffin-embedded Human lung, using the Antibody at 1:50 dilution.



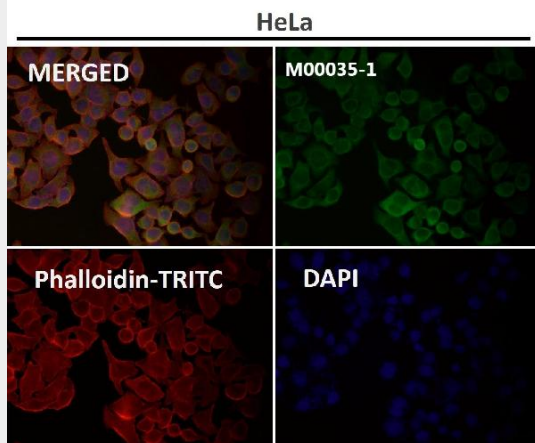
Immunohistochemical analysis of paraffin-embedded Mouse heart, using the Antibody at 1:50 dilution.



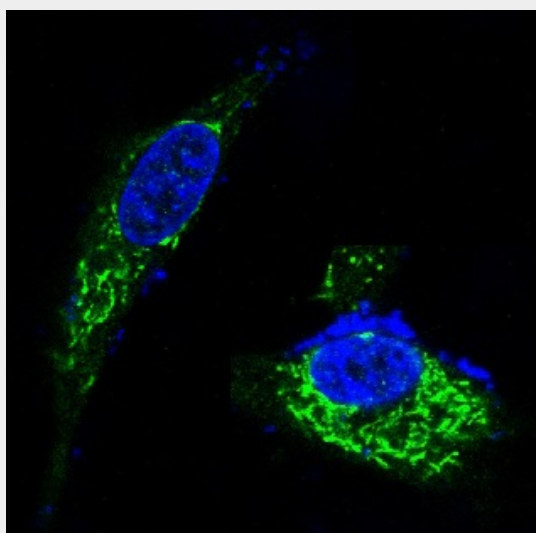
Western blot analysis of extracts of Human cerebellum lysate, using BDNF antibody.



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



Immunofluorescent analysis using the Antibody at 1:500 dilution.



Immunofluorescent analysis of HeLa cells, using BDNF Antibody.