

**Anti-BDNF Rabbit Monoclonal Antibody**  
Catalog # ABO13335

**Specification**

**Anti-BDNF Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC, IF, ICC
Primary Accession	<a href="#">P23560</a>
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<br>IHC 1:50-1:200<br>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:<a href="http://www.uniprot.org/citations/11152678" target="\_blank">11152678</a>). 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

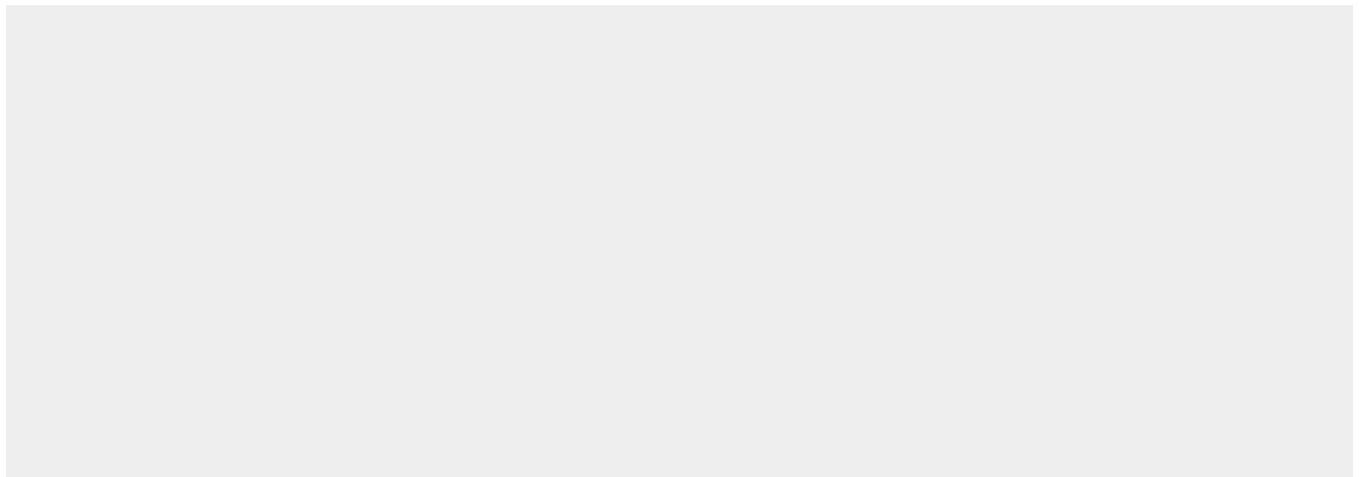
Detected in blood plasma and in saliva (at protein level) (PubMed:11152678, PubMed:19467646). Brain. Highly expressed in hippocampus, amygdala, cerebral cortex and cerebellum. Also expressed in heart, lung, skeletal muscle, testis, prostate and placenta

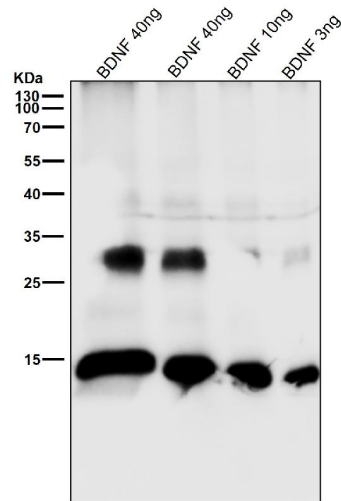
## Anti-BDNF Rabbit Monoclonal Antibody - Protocols

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

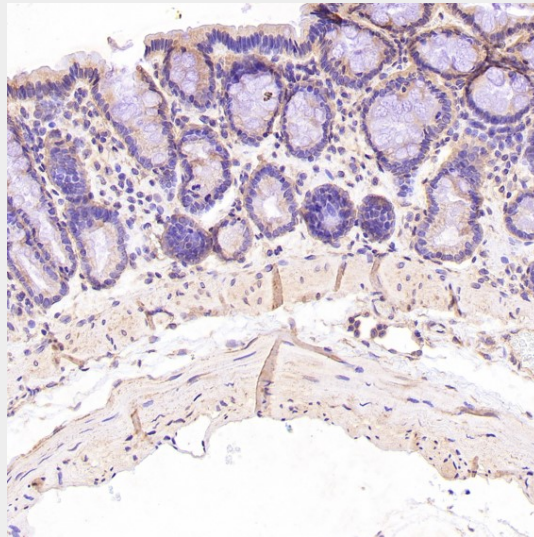
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-BDNF Rabbit Monoclonal Antibody - Images

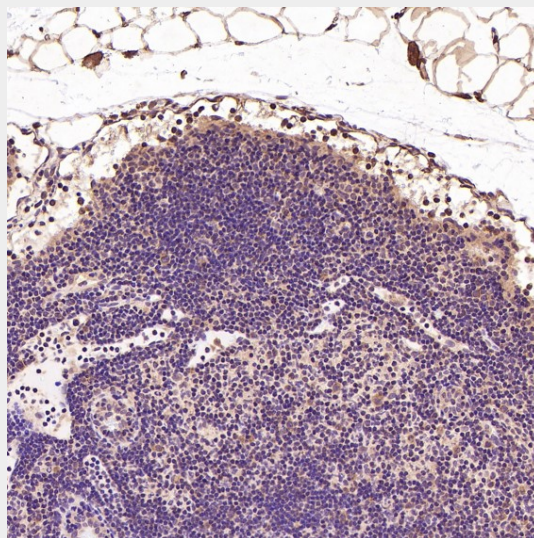




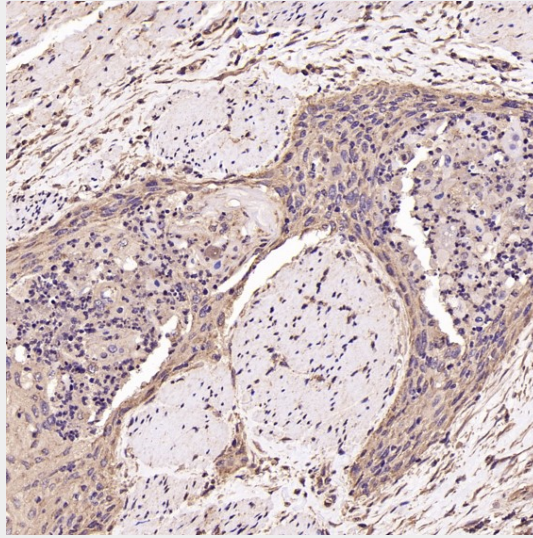
All lanes use the Antibody at 1:5k dilution for 1 hour at room temperature.



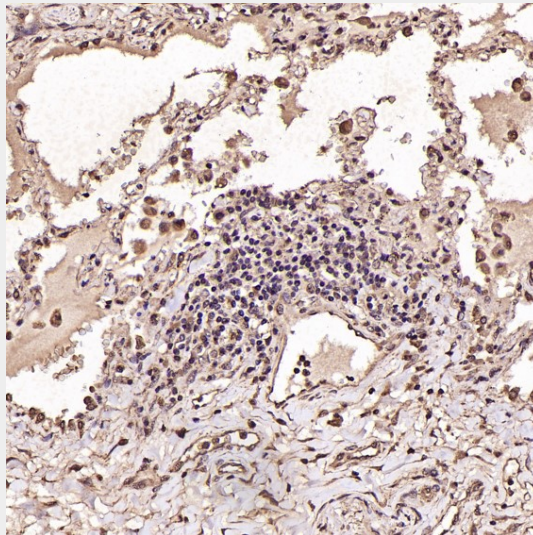
Immunohistochemical analysis of paraffin-embedded Rat stomach, using the Antibody at 1:50 dilution.



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

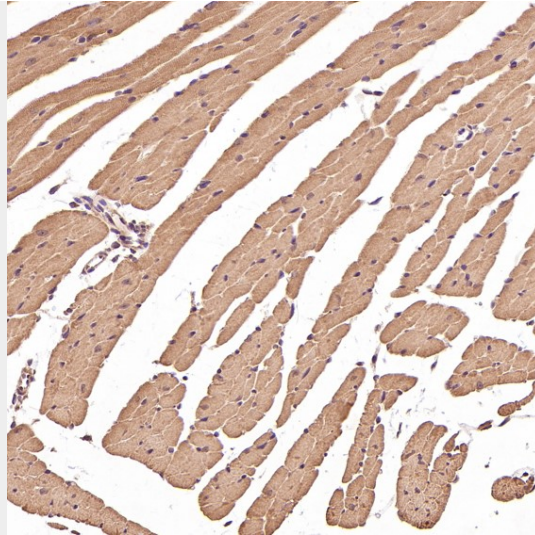


Immunohistochemical analysis of paraffin-embedded Human esophageal carcinoma, using the Antibody at 1:50 dilution.

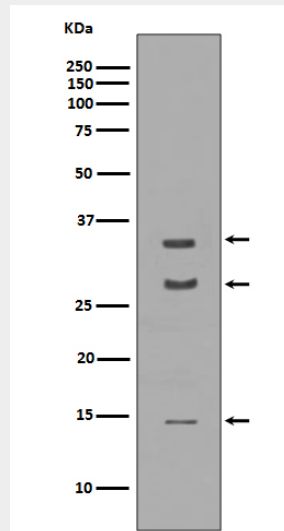


Immunohistochemical analysis of paraffin-embedded Human lung, using the Antibody at 1:50 dilution.

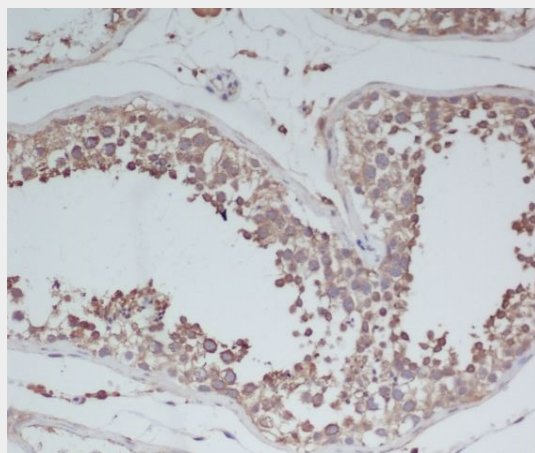




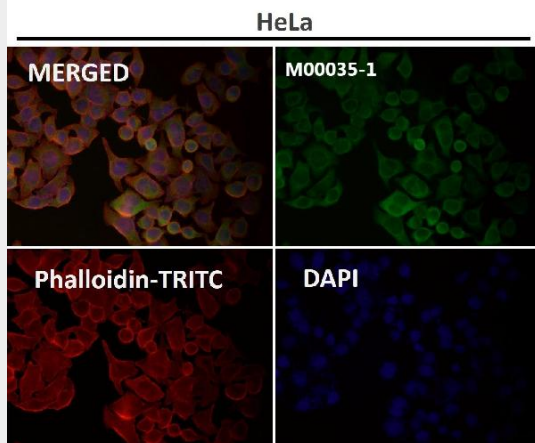
Immunohistochemical analysis of paraffin-embedded Mouse heart, using the Antibody at 1:50 dilution.



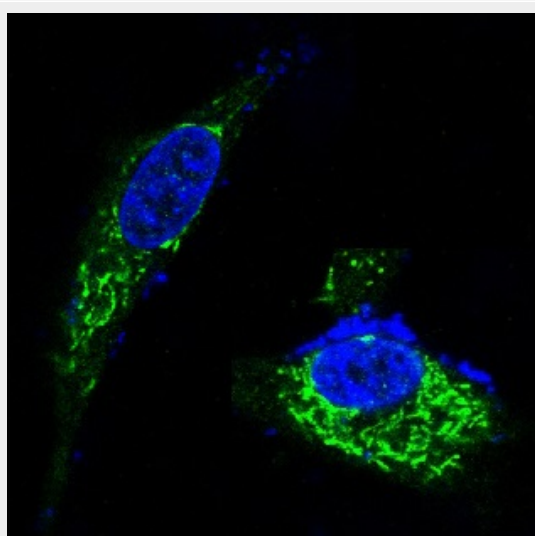
Western blot analysis of extracts of Human cerebellum lysate, using BDNF antibody.



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.