

## ARG66957 anti-BDNF antibody

Package: 100 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes BDNF
Tested Reactivity	Hu, Ms
Predict Reactivity	Rat
Tested Application	ICC/IF, IHC-Fr, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	BDNF
Species	Human
Immunogen	Synthetic peptide around the middle region of Human BDNF.
Conjugation	Un-conjugated
Alternate Names	Brain-derived neurotrophic factor; Abreineurin; BULN2; ANON2; BDNF

### Application Instructions

Application table	Application	Dilution
	ICC/IF	1:200 - 1:500
	IHC-Fr	1:100 - 1:400
	WB	1:500 - 1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Mouse cerebellum; SHSY5Y	
Observed Size	~ 28 kDa (full length); ~15 kDa (mature)	

### Properties

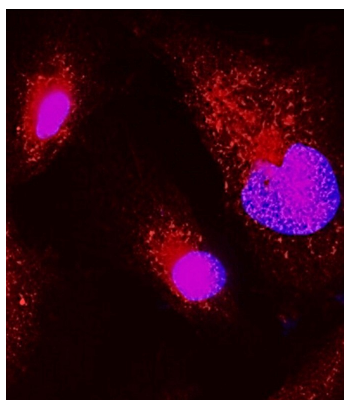
Form	Liquid
Purification	Affinity purified.
Buffer	100 mM Tris Glycine (pH 7.0), 0.025% ProClin 300, 20% Glycerol and 1% BSA.
Preservative	0.025% ProClin 300
Stabilizer	20% Glycerol and 1% BSA
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

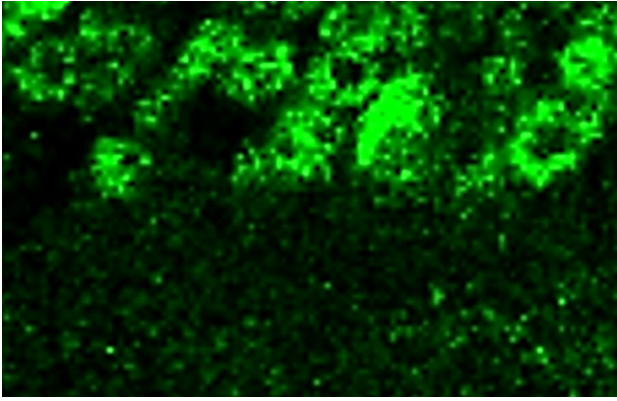
Gene Symbol	BDNF
Gene Full Name	brain-derived neurotrophic factor
Background	The protein encoded by this gene is a member of the nerve growth factor family. It is induced by cortical neurons, and is necessary for survival of striatal neurons in the brain. Expression of this gene is reduced in both Alzheimer's and Huntington disease patients. This gene may play a role in the regulation of stress response and in the biology of mood disorders. Multiple transcript variants encoding distinct isoforms have been described for this gene. [provided by RefSeq, Jan 2009]
Function	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. [UniProt]
Highlight	Related products: <a href="#">BDNF antibodies</a> ; <a href="#">BDNF ELISA Kits</a> ; <a href="#">BDNF recombinant proteins</a> ; <a href="#">Anti-Rabbit IgG secondary antibodies</a> ; Related news: <a href="#">The role of HDGF in tumor angiogenesis</a>
Calculated Mw	28 kDa
PTM	The propeptide is N-glycosylated and glycosulfated.  Converted into mature BDNF by plasmin (PLG). [UniProt]
Cellular Localization	Extracellular region or secreted. [UniProt]

## Images



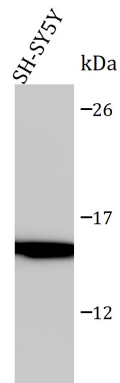
ARG66957 anti-BDNF antibody IHC-Fr image

Immunofluorescence: HuVEC cells were fixed with 4% paraformaldehyde at RT for 10 min, permeabilized with 0.1% NP-40 at RT for 10 min and then cells were blocked with 5% BSA at RT for 30 min and stained with ARG66957 anti-BDNF antibody (red) at 1:200 dilution at 4°C for overnight. DAPI (blue) was used for nuclear staining.



ARG66957 anti-BDNF antibody IHC-Fr image

Immunohistochemistry: Frozen section of Mouse cerebellum tissue stained with ARG66957 anti-BDNF antibody (green) at 1:200 dilution.



ARG66957 anti-BDNF antibody WB image

Western blot: 80 µg of SHSY5Y cell lysate stained with ARG66957 anti-BDNF antibody at 1:1000 dilution, overnight at 4°C.