

ARG65673
anti-BDNF antibodyPackage: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes BDNF
Tested Reactivity	Hu, Ms
Predict Reactivity	Dog, Rat
Tested Application	ICC/IF, IHC-Fr, IHC-P, WB
Specificity	This antibody is expected to recognise all reported isoforms (NP_001700.2; NP_001700.2; NP_733928.1; NP_733929.1; NP_733930.1; NP_733931.1)
Host	Goat
Clonality	Polyclonal
Target Name	BDNF
Species	Human
Immunogen	Synthetic peptide around the internal region of Human BDNF (ETKCNPMGYTKE)
Conjugation	Un-conjugated
Alternate Names	Brain-derived neurotrophic factor; Abrineurin; BULN2; ANON2; BDNF

Application Instructions

Application table	Application	Dilution
	ICC/IF	10 µg/ml
	IHC-Fr	1-3 µg/ml
	IHC-P	Assay - dependent
	WB	Assay dependent

Application Note IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0).
WB: WB was tested by the publication (doi: 10.21203/rs.3.rs-929317/v1)
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

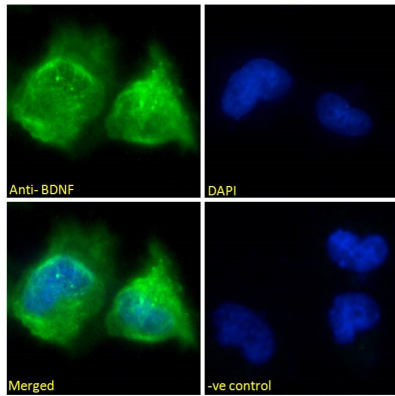
Properties

Form	Liquid
Purification	Affinity purified
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml

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 or below. 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.

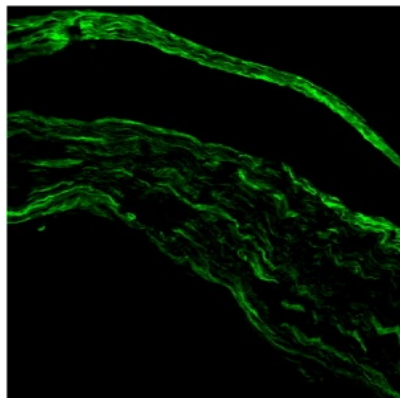
Bioinformation

Database links	GeneID: 12064 Mouse GeneID: 627 Human Swiss-port # P21237 Mouse Swiss-port # P23560 Human
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	<p>Related products: BDNF antibodies; BDNF ELISA Kits; BDNF recombinant proteins;</p> <p>Related news: The role of HDGF in tumor angiogenesis</p>
Research Area	Cell Biology and Cellular Response antibody; Metabolism antibody; Neuroscience antibody
Calculated Mw	28 kDa
PTM	The propeptide is N-glycosylated and glycosulfated. Converted into mature BDNF by plasmin (PLG).



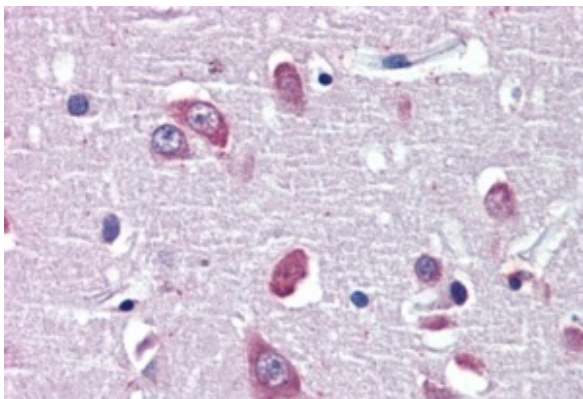
ARG65673 anti-BDNF antibody ICC/IF image

Immunofluorescence: Paraformaldehyde fixed U251 cells permeabilized with 0.15% Triton. Cells were stained with ARG65673 anti-BDNF antibody (green) at 10 µg/ml dilution for 1 hour. DAPI (blue) for nuclear staining. Negative control: Unimmunized goat IgG (green) at 10 µg/ml dilution.



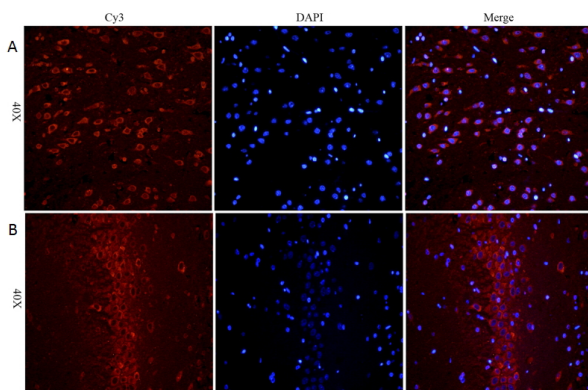
ARG65673 anti-BDNF antibody IHC-Fr image

Immunohistochemistry: PFA-perfused cryosection of Mouse sciatic nerve tissue stained with ARG65673 anti-BDNF antibody at 1 µg/ml dilution.



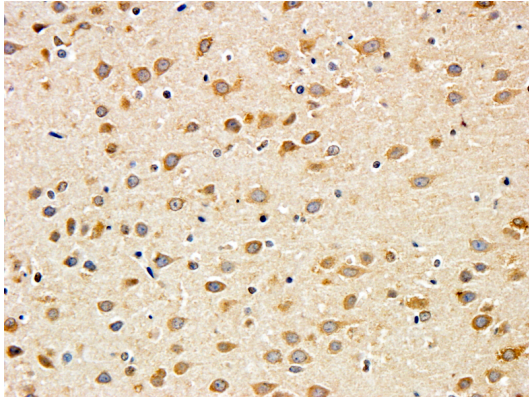
ARG65673 anti-BDNF antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human cortex tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG65673 anti-BDNF antibody at 3.75 µg/ml dilution followed by AP-staining.



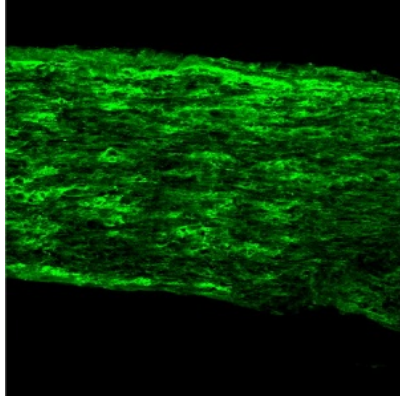
ARG65673 anti-BDNF antibody IHC image

Immunohistochemistry: paraffin-embedded Rat Cerebral Cortex (A) and Rat Hippocampus (B) stained with ARG65673 anti-BDNF antibody (red) at 5 µg/ml dilution. CRY-staining with DAPI nuclear counter stain in blue. Antigen retrieval with citrate buffer pH 6 at 95-98°C.



ARG65673 anti-BDNF antibody IHC image

Immunohistochemistry: paraffin-embedded Rat Cerebral Cortex stained with ARG65673 anti-BDNF antibody at 5 $\mu\text{g}/\text{ml}$ dilution. Antigen retrieval with citrate buffer pH 6 at 95-98°C.



ARG65673 anti-BDNF antibody IHC-Fr image

Immunohistochemistry: PFA-perfused cryosection of Mouse injured sciatic nerve tissue stained with ARG65673 anti-BDNF antibody at 1 $\mu\text{g}/\text{ml}$ dilution.
