

ARG56653 anti-BDNF antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes BDNF
Tested Reactivity	Hu, Ms, Rat
Tested Application	ELISA, ICC/IF, IHC-Fr, Neut, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	BDNF
Species	Human
Immunogen	E.coli derived Recombinant Human BDNF. (MHSDPARRGE LSVCDISEW VTAADKKTAV DMSGGTVTVL EKVPVSKGQL KQYFYETKCN PMGYTKEGCR GIDKRHWNSQ CRTTQSYVRA LTMDSKKRIG WRFIRIDTSC VCTLTIKRGR)
Conjugation	Un-conjugated
Alternate Names	Brain-derived neurotrophic factor; Abreineurin; BULN2; ANON2; BDNF

Application Instructions

Application table	Application	Dilution
	ELISA	Sandwich: 0.5 - 2.0 µg/ml with ARG56763 as a detection antibody
	ICC/IF	2.0 µg/ml
	IHC-Fr	Assay-dependent
	Neut	0.54 - 0.81 µg/ml (To yield [ND50] of the biological activity of hBDNF (2.0 µg/ml))
	WB	0.1 - 0.2 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.2)
Concentration	1 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.

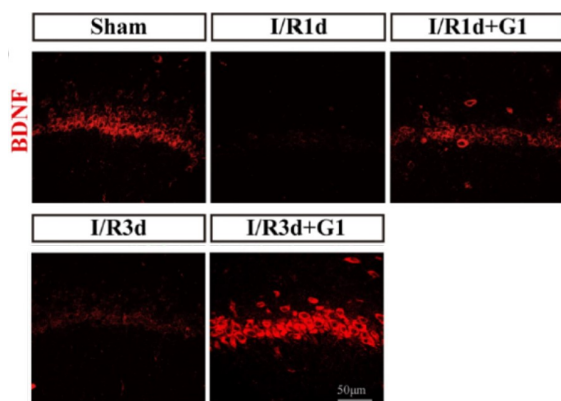
Note

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

Bioinformation

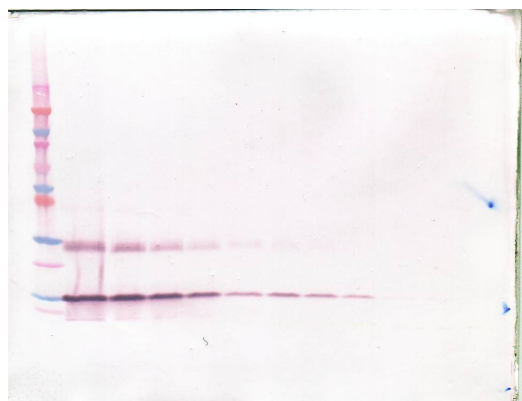
Gene Symbol	BDNF
Gene Full Name	brain-derived neurotrophic factor
Background	The protein encoded by this gene is a member of the nerve growth factor family. It is induced by cortical neurons, and is necessary for survival of striatal neurons in the brain. Expression of this gene is reduced in both Alzheimer's 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: BDNF antibodies ; BDNF ELISA Kits ; BDNF recombinant proteins ; Anti-Rabbit IgG secondary antibodies ; Related news: The role of HDGF in tumor angiogenesis
Calculated Mw	28 kDa
PTM	The propeptide is N-glycosylated and glycosulfated. Converted into mature BDNF by plasmin (PLG).

Images



ARG56653 anti-BDNF antibody ICC/IF image (Citation paper)

XU, Jing, et al. Anti-Inflammatory Actions of G-Protein-Coupled Estrogen Receptor 1 (GPER) and Brain-Derived Estrogen Following Cerebral Ischemia in Ovariectomized Rats. *Biology*, 2023, 12.1: 99.



ARG56653 anti-BDNF antibody WB image

Western blot: 250 - 0.24 ng of Human BDNF stained with ARG56653 anti-BDNF antibody, under reducing conditions.