

ARG82818 Monkey BDNF ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG82818 Monkey BDNF ELISA Kit is an Enzyme Immunoassay kit for the quantification of Monkey BDNF in serum, plasma and cell culture supernatants.
Tested Reactivity	Mk
Tested Application	ELISA
Specificity	Cross-Reactivity: Not react with recombinant Monkey BMP4, HGF, IL1 beta, IFN gamma, MMP2, PDGF AA, TGF beta 1, TLR3, TNF alpha and VEGF.
Target Name	BDNF
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	7.8 pg/ml
Sample Type	Serum, plasma and cell culture supernatants.
Standard Range	15.6 - 1000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 5.0% Inter-Assay CV: 9.0%
Alternate Names	Brain-derived neurotrophic factor; Abrineurin; BULN2; ANON2; BDNF

Application Instructions

Assay Time	~ 3 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	BDNF
Gene Full Name	brain-derived neurotrophic factor
Background	This gene encodes a member of the nerve growth factor family of proteins. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature protein. Binding of this protein to its cognate receptor promotes neuronal survival in the adult brain. Expression of this gene is reduced in Alzheimer's, Parkinson's, and

Huntington's disease patients. This gene may play a role in the regulation of the stress response and in the biology of mood disorders. [provided by RefSeq, Nov 2015]

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.

[BDNF precursor form]: Important signaling molecule that activates signaling cascades downstream of NTRK2. Activates signaling cascades via the heterodimeric receptor formed by NGFR and SORCS2 (PubMed:24908487, PubMed:29909994). Signaling via NGFR and SORCS2 plays a role in synaptic plasticity and long-term depression (LTD). Binding to NGFR and SORCS2 promotes neuronal apoptosis. Promotes neuronal growth cone collapse (By similarity). [UniProt]

PTM

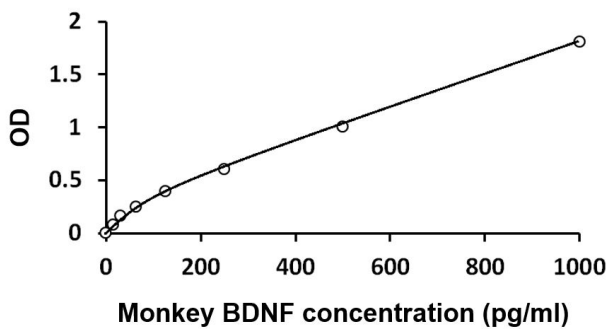
The propeptide is N-glycosylated and glycosulfated.

Converted into mature BDNF by plasmin (PLG). [UniProt]

Cellular Localization

Secreted. [UniProt]

Images



ARG82818 Monkey BDNF ELISA Kit standard curve image

ARG82818 Monkey BDNF ELISA Kit results of a typical standard run with optical density reading at 450 nm.
