
Product Name: KD-Validated Brain Derived Neurotrophic Factor Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00205**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 27.8kDa

Antigen Information

Gene Name	BDNF
Alternative Names	BDNF; Brain Derived Neurotrophic Factor; Brain-Derived Neurotrophic Factor; Neurotrophin; Abreineurin; ANON2; BULN2
Gene ID	627.0
SwissProt ID	P23560
Immunogen	A synthesized peptide derived from human BDNF

Background

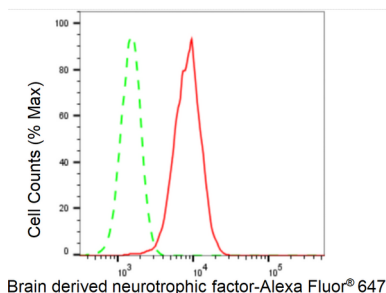
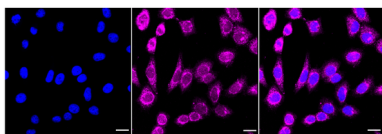
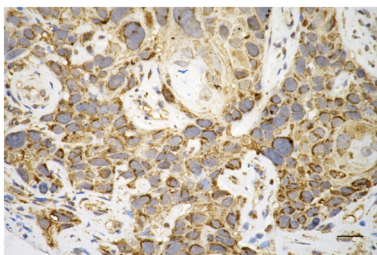
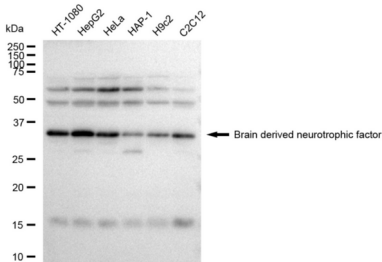
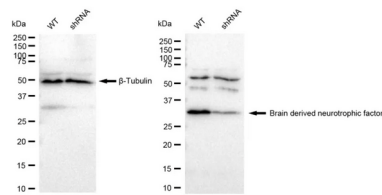
This gene encodes a member of the nerve growth factor family of proteins. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature protein.

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]

Research Area

Neuroscience, Cardiovascular, Metabolism, Signal Transduction

Image Data



Western blotting analysis using Brain derived neurotrophic factor antibody (KVA00205). Brain derived neurotrophic factor expression in wild type (WT) and Brain derived neurotrophic factor shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Brain derived neurotrophic factor antibody (KVA00205, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.

Western blotting analysis using Brain derived neurotrophic factor antibody (KVA00205). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Brain derived neurotrophic factor antibody (KVA00205, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.

Immunohistochemistry was performed on paraffin-embedded human esophageal carcinoma using brain derived neurotrophic factor antibody (KVA00205, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.

Immunocytochemical staining of HepG2 cells with Brain derived neurotrophic factor antibody (KVA00205, 1:1,000). Nuclei were stained blue with DAPI; Brain derived neurotrophic factor was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.

Flow cytometric analysis of Brain derived neurotrophic factor expression in HepG2 cells using Brain derived neurotrophic factor antibody (KVA00205, 1:2,000). Green, isotype control; red, Brain derived neurotrophic factor.