

KD-Validated Anti-Brain derived neurotrophic factor Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI2360

Product Information

Application	WB, FC, ICC
Primary Accession	P23560
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB 3005
Calculated MW	27818
Gene Name	BDNF
Aliases	BDNF; Brain Derived Neurotrophic Factor; Brain-Derived Neurotrophic Factor; Neurotrophin; Abrineurin; ANON2; BULN2
Immunogen	A synthesized peptide derived from human BDNF

Additional Information

Gene ID	627
Other Names	Neurotrophic factor BDNF precursor form, proBDNF, Abrineurin, Brain-derived neurotrophic factor, Neurotrophic factor BDNF, BDNF {ECO:0000303 PubMed:28397838, ECO:0000312 HGNC:HGNC:1033}

Protein Information

Name	BDNF {ECO:0000303 PubMed:28397838, ECO:0000312 HGNC:HGNC:1033}
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.
Cellular Location	Secreted
Tissue Location	Detected in blood plasma and in saliva (at protein level) (PubMed:11152678, PubMed:19467646). Brain. Highly expressed in hippocampus, amygdala, cerebral cortex and cerebellum. Also expressed in heart, lung, skeletal

muscle, testis, prostate and placenta

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