

BDNF polyclonal antibody

Catalog # PAB0701

Size 100 uL

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of BDNF.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to amino acids 69-82 of human BDNF.
Sequence	ELLDEDQKVRPNEE
Host	Rabbit
Theoretical MW (kDa)	35
Reactivity	Human, Mouse, Rat
Specificity	Used in western blot, this antiserum detects a 35 KDa band corresponding to the molecular weight of proBDNF. No cross reactivity with other proneurotrophins was detected.
Form	Lyophilized
Recommend Usage	Immunohistochemistry (1:1000-1:5000) Western Blot (1:1000-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from PBS
Storage Instruction	Store at 4°C on dry atmosphere. After reconstitution with deionized water, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot
- Immunohistochemistry (Frozen sections)

Gene Info — BDNF

Entrez GeneID [627](#)

Protein Accession# [P23560](#)

Gene Name BDNF

Gene Alias MGC34632

Gene Description brain-derived neurotrophic factor

Omim ID [113505](#) [164230](#) [209880](#) [606788](#) [607499](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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]

Other Designations neurotrophin

Publication Reference

- [Rapamycin Accelerates Axon Regeneration Through Schwann Cell-mediated Autophagy Following Inferior Alveolar Nerve Transection in Rats.](#)

Takanobu Inada, Hitoshi Sato, Yoshinori Hayashi, Suzuro Hitomi, Akihiko Furukawa, Masatoshi Ando, Eri Oshima, Jo Otsuji, Naoto Taguchi, Ikuko Shibuta, Hiromasa Tsuda, Koichi Iwata, Tatsuo Shirota, Masamichi Shinoda.

Neuroscience 2021 Aug; 468:43.

Application: IF, IHC-Fr, Rat, Rat inferior alveolar nerve, Rat trigeminal ganglion

Pathway

- [MAPK signaling pathway](#)
- [Neurotrophin signaling pathway](#)

Disease

- [Agoraphobia](#)
- [Akathisia](#)
- [Alcoholism](#)
- [Alzheimer disease](#)
- [Amnesia](#)
- [Amphetamine-Related Disorders](#)
- [Angina](#)
- [Anorexia](#)
- [Anorexia Nervosa](#)
- [Anoxia](#)
- [Anxiety Disorders](#)
- [Arousal](#)
- [Asperger Syndrome](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Atrophy](#)
- [Attention](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Avoidance Learning](#)
- [Basal Ganglia Diseases](#)
- [Bipolar Disorder](#)
- [Birth Weight](#)
- [Body Weight](#)
- [Borderline Personality Disorder](#)
- [Brain Injuries](#)

- [Brain Ischemia](#)
- [Bulimia](#)
- [Bulimia Nervosa](#)
- [Cardiovascular Diseases](#)
- [Cerebral Infarction](#)
- [Cerebrovascular Accident](#)
- [Chromosome Aberrations](#)
- [Chronic Disease](#)
- [Cognition](#)
- [Cognition Disorders](#)
- [Conditioning](#)
- [Conditioning \(Psychology\)](#)
- [Coronary Artery Disease](#)
- [Cues](#)
- [Decision Making](#)
- [Depression](#)
- [Depressive Disorder](#)
- [Dermatitis](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Discrimination \(Psychology\)](#)
- [Disease Models](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Dominance](#)

- [Dyskinesia](#)
- [Dysthymic Disorder](#)
- [Dystonic Disorders](#)
- [Eating Disorders](#)
- [Edema](#)
- [Electroconvulsive Therapy](#)
- [Epilepsies](#)
- [Epilepsy](#)
- [Executive Function](#)
- [Extinction](#)
- [Failure to Thrive](#)
- [Fragile X syndrome](#)
- [Functional Laterality](#)
- [Galvanic Skin Response](#)
- [Gambling](#)
- [Genetic Predisposition to Disease](#)
- [Genetics](#)
- [Granuloma](#)
- [Hallucinations](#)
- [Headache](#)
- [Heroin Dependence](#)
- [Huntington disease](#)
- [Hypercholesterolemia](#)
- [Hyperphagia](#)
- [Hypertension](#)

- [Inhibition \(Psychology\)](#)
- [Intelligence Tests](#)
- [Intervertebral Disk Displacement](#)
- [Learning](#)
- [Leukoencephalopathies](#)
- [Lewy Body Disease](#)
- [Lupus Erythematosus](#)
- [Lupus Vasculitis](#)
- [Memory](#)
- [Memory Disorders](#)
- [Mental Disorders](#)
- [Mental Processes](#)
- [Mental Recall](#)
- [Mental Retardation](#)
- [Mental Status Schedule](#)
- [Mercury Poisoning](#)
- [Metabolic Syndrome X](#)
- [Migraine Disorders](#)
- [Mitral Valve Prolapse](#)
- [MMPI](#)
- [Mood Disorders](#)
- [Motor Skills](#)
- [Multiple Sclerosis](#)
- [Multiple System Atrophy](#)
- [Myopia](#)
- [NARP](#)

- [Neoplasms](#)
- [Neuropsychological Tests](#)
- [Neurotic Disorders](#)
- [Obesity](#)
- [Obsessive-Compulsive Disorder](#)
- [Obstetric Labor Complications](#)
- [Opioid-Related Disorders](#)
- [Orientation](#)
- [Osteoporosis](#)
- [Ovarian Failure](#)
- [Overweight](#)
- [Pain](#)
- [Panic Disorder](#)
- [Paranoid Disorders](#)
- [Parkinson disease](#)
- [Parkinsonian Disorders](#)
- [Pattern Recognition](#)
- [Perception](#)
- [Personality Assessment](#)
- [Personality Disorders](#)
- [Personality Inventory](#)
- [Personality Tests](#)
- [Pick Disease of the Brain](#)
- [Polycystic Ovary Syndrome](#)
- [Polyradiculoneuropathy](#)
- [Postmortem Changes](#)

- [Prenatal Exposure Delayed Effects](#)
- [Problem Solving](#)
- [Psychiatric Status Rating Scales](#)
- [Psychoacoustics](#)
- [Psychological Tests](#)
- [Psychometrics](#)
- [Psychomotor Performance](#)
- [Psychoses](#)
- [Psychotic Disorders](#)
- [Puberty](#)
- [Reaction Time](#)
- [Recognition \(Psychology\)](#)
- [Recurrence](#)
- [Rett syndrome](#)
- [Reward](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Schizotypal Personality Disorder](#)
- [Sciatica](#)
- [Seizures](#)
- [Serial Learning](#)
- [Sleep Apnea](#)
- [Sleep Disorders](#)
- [Social Perception](#)
- [Startle Reaction](#)
- [Stress](#)

- [Stress Disorders](#)
- [Stroke](#)
- [Subarachnoid Hemorrhage](#)
- [Substance-Related Disorders](#)
- [Syndrome](#)
- [Thinking](#)
- [Thrombophilia](#)
- [Tic Disorders](#)
- [Tobacco Use Disorder](#)
- [Torticollis](#)
- [Tourette Syndrome](#)
- [Verbal Learning](#)
- [Wechsler Scales](#)
- [Weight Gain](#)
- [Weight Loss](#)
- [Werner syndrome](#)