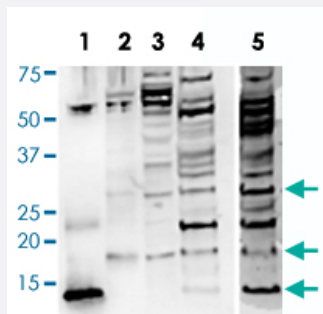


BDNF polyclonal antibody

Catalog # PAB14311

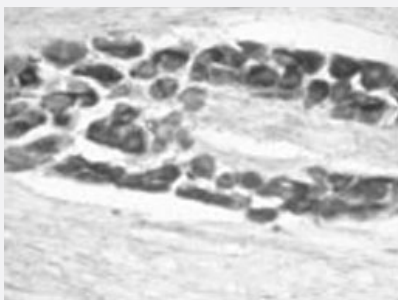
Size 500 ug

Applications



Western Blot

Western Blot analysis of (1) BDNF of rhBDNF R-088-100 (whole serum), (2) BDNF-isoform of rhBDNF R-088-100 (whole serum), (3) SHSY5Y of rhBDNF R-088-100 (whole serum), (4) Human brain of rhBDNF R-088-100 (whole serum), (5) Human brain of R-017-500 (IgG, 10 ug/mL), monomeric BDNF at 14 kDa and proBDNF is detected at the expected molecular weight of 32 kDa for glycosylated proBDNF monomer.



Immunohistochemistry

Immunohistochemical staining for BDNF in rat dorsal root ganglion (DRG) using BDNF polyclonal antibody (Cat # PAB14311) at an amount of 5 ug/mL . Neuron cell bodies are strongly stained for BDNF.

Specification

Product Description	Rabbit polyclonal antibody raised against recombinant BDNF.
Immunogen	Recombinant protein corresponding to human BDNF.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This antibody has less than 0.1% cross-reactivity against NGF, recombinant NT3 and NT4 by dot blot .
Form	Lyophilized

Purification	Protein G purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (1-10 ug/mL) ELISA (0.1 ug/mL) Inhibition Assay (1-10 ug/mL) Western Blot (1-10 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	Reconstitute in 500 uL sterile-filtered 1X PBS, pH 7.2-7.6. Glycerol (1:1) may be added for an additional stability.
Storage Instruction	Store at 4°C on dry atmosphere. After reconstitution store at -20°C Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

Western Blot analysis of (1) BDNF of rhBDNF R-088-100 (whole serum), (2) BDNF-isoform of rhBDNF R-088-100 (whole serum), (3) SHSY5Y of rhBDNF R-088-100 (whole serum), (4) Human brain of rhBDNF R-088-100 (whole serum), (5) Human brain of R-017-500 (IgG, 10 ug/mL), monomeric BDNF at 14 kDa and proBDNF is detected at the expected molecular weight of 32 kDa for glycosylated proBDNF monomer.

- Immunohistochemistry

Immunohistochemical staining for BDNF in rat dorsal root ganglion (DRG) using BDNF polyclonal antibody (Cat # PAB14311) at an amount of 5 ug/mL . Neuron cell bodies are strongly stained for BDNF.

- Enzyme-linked Immunoabsorbent Assay

- Inhibition Assay

Gene Info — BDNF

Entrez GeneID	627
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

- [Physiology of BDNF: focus on hypothalamic function.](#)

Tapia-Arancibia L, Rage F, Givalois L, Arancibia S.

Frontiers in Neuroendocrinology 2004 Jul; 25(2):77.

Application: IHC, Rat, Rat brain

- [The BDNF gene: exemplifying complexity in Ca²⁺ -dependent gene expression.](#)

Mellstrom B, Torres B, Link WA, Naranjo JR.

Crit Rev Neurobiol 2004 Jan; 16(1-2):43.

- [BDNF: a neuromodulator in nociceptive pathways?](#)

Pezet S, Malcangio M, McMahon SB.

Brain Research. Brain Research Reviews 2002 Oct; 40(1-3):240.

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](#)