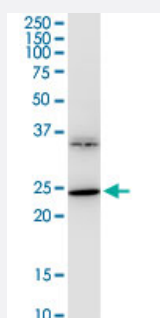


# BDNF monoclonal antibody (M02), clone 1B10

Catalog # H00000627-M02

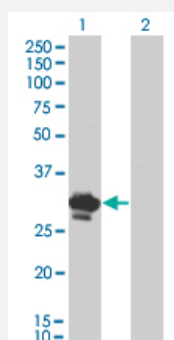
Size 100 ug

## Applications



### Western Blot (Cell lysate)

BDNF monoclonal antibody (M02), clone 1B10. Western Blot analysis of BDNF expression in IMR-32.

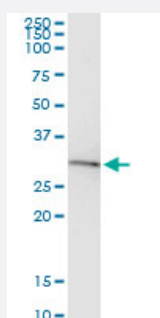


### Western Blot (Transfected lysate)

Western Blot analysis of BDNF expression in transfected 293T cell line by BDNF monoclonal antibody (M02), clone 1B10.

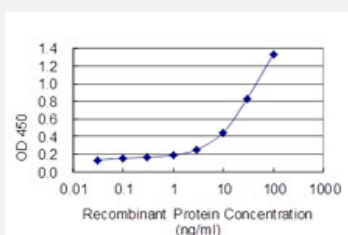
Lane 1: BDNF transfected lysate(28.9 KDa).

Lane 2: Non-transfected lysate.



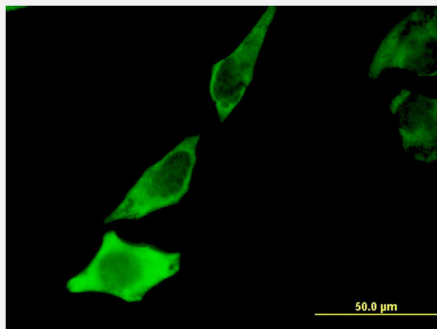
### Immunoprecipitation

Immunoprecipitation of BDNF transfected lysate using anti-BDNF monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with BDNF monoclonal antibody.



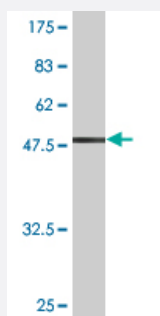
### Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged BDNF is 0.3 ng/ml as a capture antibody.



## Immunofluorescence

Immunofluorescence of monoclonal antibody to BDNF on HeLa cell . [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (52.91 KDa) .

## Specification

|                                      |                                                                                                                                                                                                                                                                  |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>           | Mouse monoclonal antibody raised against a full-length recombinant BDNF.                                                                                                                                                                                         |
| <b>Immunogen</b>                     | BDNF (AAH29795, 1 a.a. ~ 247 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.                                                                                                                                               |
| <b>Sequence</b>                      | MTILFLTMVISYFGCMKAAPMKEANIRGQGGLAYPGVIRTHGTLESVNGPKAGSRGLTSLADTFEH<br>MIEELLDEDQKVRPNEENNKDADLYTSRVMLSSQVPLEPPLFLLEEYKNYLDANMSMRVRRH<br>SDPARRGELSVCDSEWVTAADKKTAVDMSGGTVTVLEKVPVSKGQLKQYFYKTKCNPMGYA<br>KEGCRGIDKRHWNSQCRTTQSYVRALTMDSKKRIGWRFIRDTSVCVCTLTIKRGR |
| <b>Host</b>                          | Mouse                                                                                                                                                                                                                                                            |
| <b>Reactivity</b>                    | Human                                                                                                                                                                                                                                                            |
| <b>Interspecies Antigen Sequence</b> | Mouse (96); Rat (96)                                                                                                                                                                                                                                             |
| <b>Isotype</b>                       | IgG2a Kappa                                                                                                                                                                                                                                                      |
| <b>Quality Control Testing</b>       | Antibody Reactive Against Recombinant Protein.<br>Western Blot detection against Immunogen (52.91 KDa) .                                                                                                                                                         |
| <b>Storage Buffer</b>                | In 1x PBS, pH 7.4                                                                                                                                                                                                                                                |
| <b>Storage Instruction</b>           | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                         |

## Applications

- Western Blot (Cell lysate)

BDNF monoclonal antibody (M02), clone 1B10. Western Blot analysis of BDNF expression in IMR-32.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of BDNF expression in transfected 293T cell line by BDNF monoclonal antibody (M02), clone 1B10.

Lane 1: BDNF transfected lysate(28.9 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunoprecipitation

Immunoprecipitation of BDNF transfected lysate using anti-BDNF monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with BDNF monoclonal antibody.

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged BDNF is 0.3 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to BDNF on HeLa cell . [antibody concentration 10 ug/ml]

## Gene Info — BDNF

|               |                     |
|---------------|---------------------|
| Entrez GeneID | <a href="#">627</a> |
|---------------|---------------------|

|                     |                          |
|---------------------|--------------------------|
| GeneBank Accession# | <a href="#">BC029795</a> |
|---------------------|--------------------------|

|                    |                          |
|--------------------|--------------------------|
| Protein Accession# | <a href="#">AAH29795</a> |
|--------------------|--------------------------|

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Name          | BDNF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Gene Alias         | MGC34632                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Gene Description   | brain-derived neurotrophic factor                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Omim ID            | <a href="#">113505</a> <a href="#">164230</a> <a href="#">209880</a> <a href="#">606788</a> <a href="#">607499</a>                                                                                                                                                                                                                                                                                                                                                                              |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## 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](#)