

For Research Use Only

# BDNF Monoclonal antibody

Catalog Number: 66292-1-Ig **29 Publications**



## Basic Information

<b>Catalog Number:</b> 66292-1-Ig	<b>GenBank Accession Number:</b> BC029795	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 2200 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 627	<b>CloneNo.:</b> 1E5C5
<b>Source:</b> Mouse	<b>Full Name:</b> brain-derived neurotrophic factor	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IF 1:400-1:1600
<b>Isotype:</b> IgG2a	<b>Calculated MW:</b> 247 aa, 28 kDa	
<b>Immunogen Catalog Number:</b> AG11329	<b>Observed MW:</b> 32 kDa	

## Applications

<b>Tested Applications:</b> IF, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> FC, IF, IHC, WB	<b>WB :</b> U-251 cells, fetal human brain tissue
<b>Species Specificity:</b> human	<b>IF :</b> U-251 cells, PC-12 cells
<b>Cited Species:</b> human, zebrafish	

## Background Information

BDNF is a member of the family of neurotrophic factors. It was first explored and purified from pig brain in 1982, and other members of the neurotrophin family were successively discovered. BDNF is induced by cortical neurons, and is necessary for survival of striatal neurons in the brain. Expression of BDNF is reduced in both Alzheimer's and Huntington disease patients. It also plays a role in the regulation of stress response and in the biology of mood disorders. The BDNF gene is rather complex in its structure and it can express five different mRNA isoforms by alternative splicing, producing 28-37 kDa proteins.

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhenbo Liu	30542392	Exp Ther Med	WB
Yingying Wang	36174863	Int J Biol Macromol	WB
Ruyi Zhang	30259256	Neurochem Res	WB

## Storage

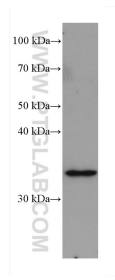
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

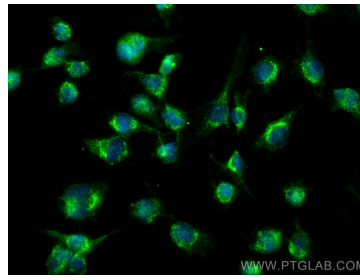
For technical support and original validation data for this product please contact:  
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## Selected Validation Data



U-251 cells were subjected to SDS PAGE followed by western blot with 66292-1-Ig (BDNF antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Methanol) fixed U-251 cells using BDNF antibody (66292-1-Ig, Clone: 1E5C5 ) at dilution of 1:800 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).