

# BDNF Polyclonal antibody

Catalog Number: 28205-1-AP

111 Publications

## Basic Information

<b>Catalog Number:</b> 28205-1-AP	<b>GenBank Accession Number:</b> BC029795	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 500 µg/ml	<b>GeneID (NCBI):</b> 627	<b>Recommended Dilutions:</b> WB 1:500-1:2000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P23560	IHC 1:200-1:800
<b>Isotype:</b> IgG	<b>Full Name:</b> brain-derived neurotrophic factor	IF 1:200-1:800
<b>Immunogen Catalog Number:</b> AG28276	<b>Calculated MW:</b> 247 aa, 28 kDa	
	<b>Observed MW:</b> 28-30 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IF, IHC, WB	<b>WB :</b> C6 cells, SH-SY5Y cells, PC-12 cells
<b>Species Specificity:</b> Human, mouse, rat	<b>IHC :</b> human gliomas tissue, mouse brain tissue, mouse cerebellum tissue
<b>Cited Species:</b> human, rat, mouse	<b>IF :</b> PC-12 cells,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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 participates in axonal growth, pathfinding and in the modulation of dendritic growth and morphology. 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
Xiaoyan Liu	31574948	Int J Mol Sci	IF
Minghao Yao	31355388	Biomater Sci	WB
Weiping Xiao	36100045	Exp Neurol	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

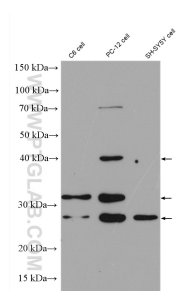
For technical support and original validation data for this product please contact:

T: 4006900926

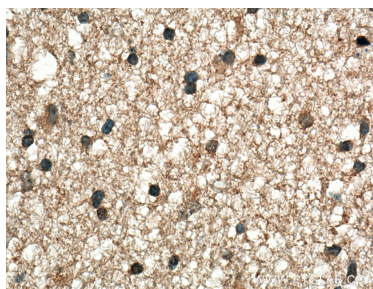
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



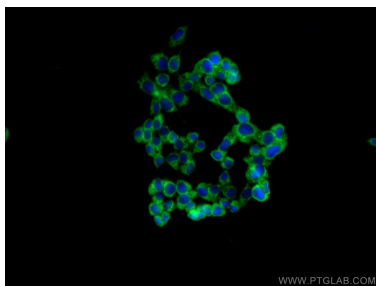
Various lysates were subjected to SDS PAGE followed by western blot with 28205-1-AP (BDNF antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 28205-1-AP (BDNF antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 28205-1-AP (BDNF antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed PC-12 cells using BDNF antibody (28205-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).