

# BDNF Polyclonal antibody

Catalog Number: 28205-1-AP

111 Publications

## Basic Information

|  |  |   |
|--|--|---|
| <b>Catalog Number:</b><br>28205-1-AP                         | <b>GenBank Accession Number:</b><br>BC029795           | <b>Purification Method:</b><br>Antigen affinity purification                          |
| <b>Size:</b><br>150ul, Concentration: 500 µg/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>627                           | <b>Recommended Dilutions:</b><br>WB 1:500-1:2000<br>IHC 1:200-1:800<br>IF 1:200-1:800 |
| <b>Source:</b><br>Rabbit                                     | <b>Full Name:</b><br>brain-derived neurotrophic factor |   |
| <b>Isotype:</b><br>IgG                                       | <b>Calculated MW:</b><br>247 aa, 28 kDa                |   |
| <b>Immunogen Catalog Number:</b><br>AG28276                  | <b>Observed MW:</b><br>28-30 kDa                       |   |

## Applications

|  |   |
|--|---|
| <b>Tested Applications:</b><br>IF, IHC, WB, ELISA  | <b>Positive Controls:</b><br>WB: C6 cells, SH-SY5Y cells, PC-12 cells         |
| <b>Cited Applications:</b><br>IF, IHC, WB  | <b>IHC:</b> human gliomas tissue, mouse brain tissue, mouse cerebellum tissue |
| <b>Species Specificity:</b><br>Human, mouse, rat   | <b>IF:</b> PC-12 cells,   |
| <b>Cited Species:</b><br>human, rat, mouse   |   |
| <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

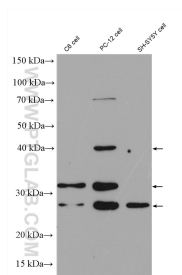
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

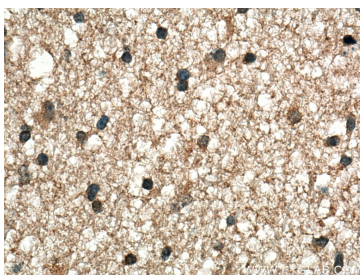
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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## Selected Validation Data



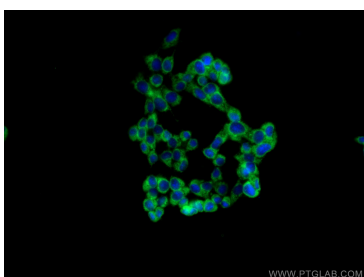
Various lysates were subjected to SDS PAGE followed by western blot with 28205-1-AP (BDNF antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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).