

For Research Use Only

# BDNF Polyclonal antibody

Catalog Number: 28205-1-AP **22 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> 150UL, Concentration: 500 µg/ml by Nanodrop and 333 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 627	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IF 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> brain-derived neurotrophic factor	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 247 aa, 28 kDa	
<b>Immunogen Catalog Number:</b> AG28276	<b>Observed MW:</b> 28-30 kDa	

## Applications

<b>Tested Applications:</b> IF, WB, ELISA	<b>Positive Controls:</b> WB : C6 cells, SH-SY5Y cells, PC-12 cells IF : PC-12 cells,
<b>Cited Applications:</b> IF, WB	
<b>Species Specificity:</b> Human, mouse, rat	
<b>Cited Species:</b> human, mouse, rat	

## 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 four 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
Zheng He	31695428	Onco Targets Ther	WB
Paola Rusmini	30335591	Autophagy	

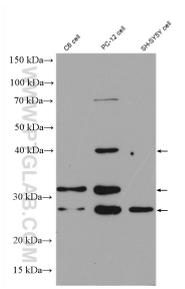
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.1% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

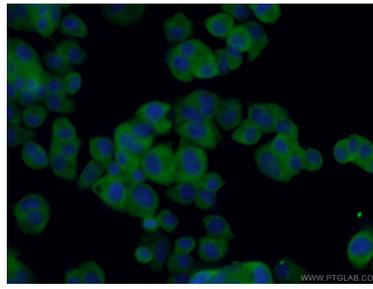
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## Selected Validation Data



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.



Immunofluorescent analysis of (4% PFA) fixed PC-12 cells using 28205-1-AP (BDNF antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).