

For Research Use Only

# CoraLite®594-conjugated BDNF Monoclonal antibody

Catalog Number:CL594-66292



## Basic Information

<b>Catalog Number:</b> CL594-66292	<b>GenBank Accession Number:</b> BC029795	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 627	<b>CloneNo.:</b> 1E5C5
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P23560	<b>Recommended Dilutions:</b> IF/ICC: 1:50-1:500
<b>Isotype:</b> IgG2a	<b>Full Name:</b> brain-derived neurotrophic factor	<b>FC (Intra):</b> 0.40 ug per 10 <sup>6</sup> cells in a 100 µl suspension
<b>Immunogen Catalog Number:</b> AG11329	<b>Calculated MW:</b> 247 aa, 28 kDa	<b>Excitation/Emission maximum wavelengths:</b> 588 nm / 604 nm
	<b>Observed MW:</b> 32 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, FC (Intra)	<b>Positive Controls:</b> IF/ICC : PC-12 cells,
<b>Species Specificity:</b> human	<b>FC (Intra) :</b> U-251 cells,

## 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.

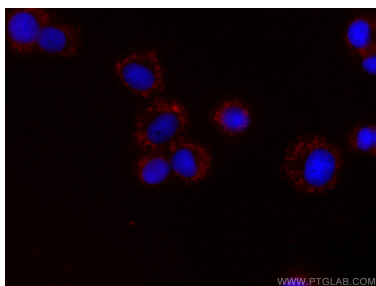
## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3  
**Aliquoting is unnecessary for -20° C storage**

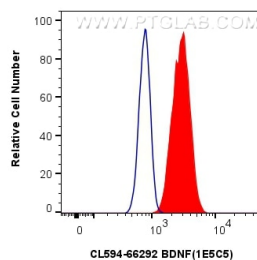
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed PC-12 cells using CL594-66292 (BDNF antibody) at dilution of 1:100.



1x10<sup>6</sup> U-251 cells were intracellularly stained with 0.4 ug CoraLite®594-conjugated BDNF Monoclonal antibody (CL594-66292, Clone:1E5C5) (red), or 0.4 ug CoraLite®594 Mouse IgG2a isotype control (11A1B2) (CL594-66360-2, Clone: 11A1B2) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).