

For Research Use Only

# CoraLite®594-conjugated BDNF Monoclonal antibody

Catalog Number:CL594-66292



## Basic Information

Catalog Number:

CL594-66292

Size:

100ul , Concentration: 1000 ug/ml by 627

Nanodrop;

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG11329

GenBank Accession Number:

BC029795

GeneID (NCBI):

627

UNIPROT ID:

P23560

Full Name:

brain-derived neurotrophic factor

Calculated MW:

247 aa, 28 kDa

Observed MW:

32 kDa

Purification Method:

Protein A purification

CloneNo.:

1E5C5

Recommended Dilutions:

IF/ICC 1:50-1:500

Excitation/Emission maxima  
wavelengths:

588 nm / 604 nm

## Applications

Tested Applications:

IF/ICC, FC (Intra)

Species Specificity:

human

Positive Controls:

IF/ICC : PC-12 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, pH 7.3.

Aliquoting is unnecessary for -20°C storage

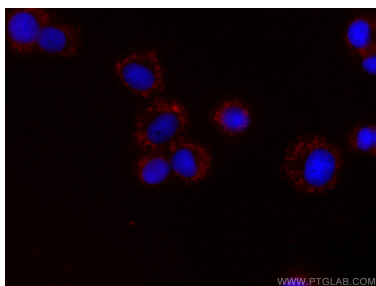
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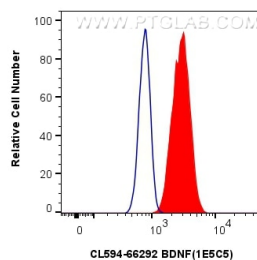
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## Selected Validation Data



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).