

# CoraLite®594-conjugated BDNF Monoclonal antibody

Catalog Number: **CL594-66292**

## Basic Information

**Catalog Number:**

CL594-66292

**Size:**

2000 µg/ml

**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 1:50-1:500

**Excitation/Emission maxima  
wavelengths:**

588 nm / 604 nm

## Applications

**Tested Applications:**

IF/ICC

**Species Specificity:**

human

**Positive Controls:**

IF : 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:**

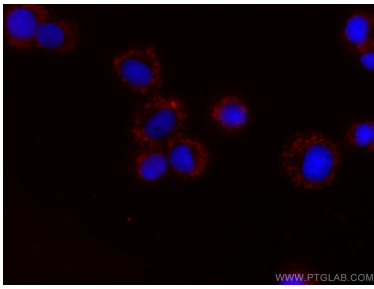
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



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