

CoraLite®594-conjugated BDNF Monoclonal antibody

Catalog Number: **CL594-66292**

Basic Information

Catalog Number: CL594-66292	GenBank Accession Number: BC029795	Purification Method: Protein A purification
Size: 2000 µg/ml	GeneID (NCBI): 627	CloneNo.: 1E5C5
Source: Mouse	UNIPROT ID: P23560	Recommended Dilutions: IF/ICC 1:50-1:500
Isotype: IgG2a	Full Name: brain-derived neurotrophic factor	Excitation/Emission maxima wavelengths: 588 nm / 604 nm
Immunogen Catalog Number: AG11329	Calculated MW: 247 aa, 28 kDa	
	Observed MW: 32 kDa	

Applications

Tested Applications: IF/ICC	Positive Controls: IF/ICC : PC-12 cells,
Species Specificity: human	

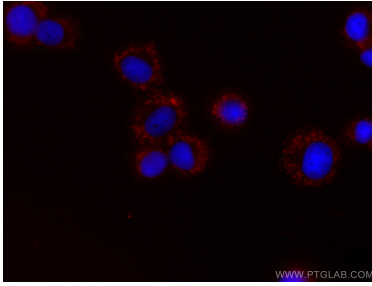
Background Information

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.