

BDNF Antibody

Catalog No: #32263

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Description

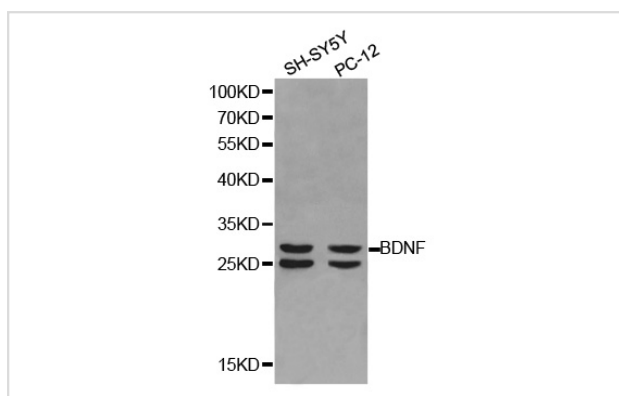
Product Name	BDNF Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB IHC
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of total BDNF protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human BDNF.
Target Name	BDNF
Other Names	BDNF; MGC34632;
Accession No.	Swiss-Prot:P23560NCBI Gene ID:627
SDS-PAGE MW	28KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

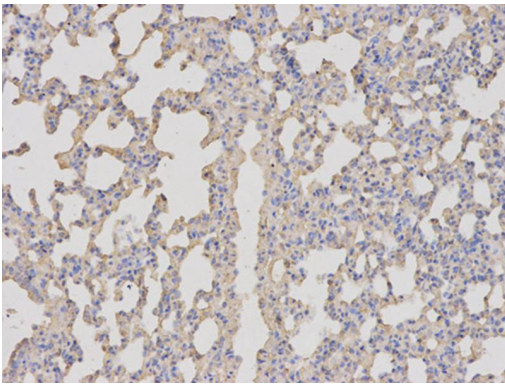
Western blotting: 1:500 - 1:2000

Immunohistochemistry: 1:50 - 1:100

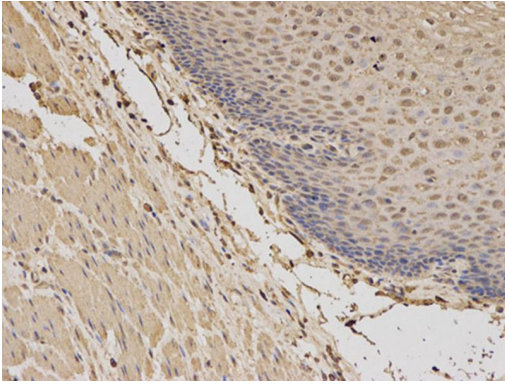
Images



Western blot analysis of extracts of SH-SY5Y cell and PC-12 cell lines, using BDNF antibody.



Immunohistochemical analysis of paraffin-embedded rat lung using BDNF antibody at dilution of 1:100 (200x lens).



Immunohistochemical analysis of paraffin-embedded human esophagus using BDNF antibody at dilution of 1:100 (200x lens).

Background

Neurotrophins function to regulate naturally occurring cell death of neurons during development. The prototype neurotrophin is nerve growth factor (NGF), originally discovered in the 1950s as a soluble peptide promoting the survival of, and neurite outgrowth from, sympathetic ganglia. Three additional structurally homologous neurotrophic factors have been identified. These include brain-derived neurotrophic factor (BDNF), neurotrophin-3 (NT-3) and neurotrophin-4 (NT-4) (also designated NT-5). These various neurotrophins stimulate the in vitro survival of distinct, but partially overlapping, populations of neurons. The cell surface receptors through which neurotrophins mediate their activity have been identified. For instance, the Trk A receptor is the preferential receptor for NGF, but also binds NT-3 and NT-4. The Trk B receptor binds both BDNF and NT-4 equally well, and binds NT-3 to a lesser extent, while the Trk C receptor only binds NT-3.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.