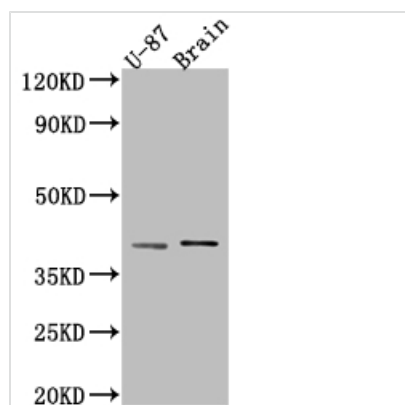




NGF Recombinant Monoclonal Antibody

Product Code	CSB-RA288635A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P01138
Immunogen	A synthesized peptide derived from human NGF
Species Reactivity	Human, Rat
Tested Applications	ELISA, WB, IHC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200
Relevance	Nerve growth factor is important for the development and maintenance of the sympathetic and sensory nervous systems. Extracellular ligand for the NTRK1 and NGFR receptors, activates cellular signaling cascades through those receptor tyrosine kinase to regulate neuronal proliferation, differentiation and survival. Inhibits metalloproteinase dependent proteolysis of platelet glycoprotein VI (PubMed:20164177).
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Neuroscience
Gene Names	NGF
Clone No.	5F10

Image



Western Blot

Positive WB detected in: U-87 whole cell lysate, Rat Brain whole cell lysate

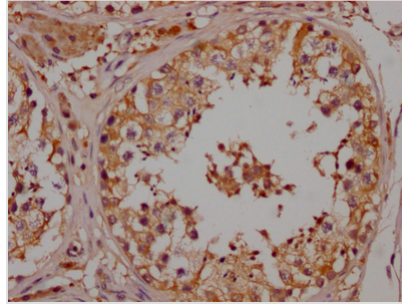
All lanes: NGF antibody at 1:1000

Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 27 kDa

Observed band size: 39 kDa



IHC image of CSB-RA288635A0HU diluted at 1:100 and staining in paraffin-embedded human testis tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4? overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Description

NGF is a neurotrophic protein essential for the growth, differentiation, and survival of sympathetic and sensory afferent neurons during development. NGF contributes to neuronal phenotype by modulating axonal guidance, gene transcription, neurotransmitter release, and synaptic plasticity. In addition, NGF plays a pivotal role in the modulation of nociception in adulthood through the interaction with its selective receptor trKA. NGF generates hyperalgesia, partly by direct effects on neurons, and partly by stimulation of inflammatory cells to release inflammatory mediators.

The recombinant NGF antibody was generated in vitro through inserting cloned NGF genes into expression vectors. The expression vector was then inserted into a mammalian cell to express this NGF antibody. It has been validated in ELISA, WB, IHC. Every step in the production was controlled strictly. You have no worries about the quality.