

# **Anti-NGF / bNGF Reference Antibody (MEDI-578)**

Recombinant Antibody Catalog # APR10438

#### **Specification**

# Anti-NGF / bNGF Reference Antibody (MEDI-578) - Product Information

Application FC, Kinetics, Animal Model

Primary Accession
Reactivity
Human
Clonality
Monoclonal
Isotype
Calculated MW
P01138
Human
Monoclonal
IgG4SP
150 KDa

### Anti-NGF / bNGF Reference Antibody (MEDI-578) - Additional Information

**Target/Specificity** 

NGF / bNGF

**Endotoxin** 

< 0.001EU/ µg,determined by LAL method.

**Conjugation** Unconjugated

**Expression system** 

CHO Cell

#### **Format**

Purified monoclonal antibody supplied in PBS, pH6.0, without preservative. This antibody is purified through a protein A column.

### Anti-NGF / bNGF Reference Antibody (MEDI-578) - Protein Information

Name NGF

Synonyms NGFB

#### **Function**

Nerve growth factor is important for the development and maintenance of the sympathetic and sensory nervous systems (PubMed:<a href="http://www.uniprot.org/citations/14976160" target="\_blank">14976160</a>, PubMed:<a href="http://www.uniprot.org/citations/20978020" target="\_blank">20978020</a>). Extracellular ligand for the NTRK1 and NGFR receptors, activates cellular signaling cascades to regulate neuronal proliferation, differentiation and survival (Probable) (PubMed:<a href="http://www.uniprot.org/citations/20978020" target="\_blank">20978020</a>). The immature NGF precursor (proNGF) functions as a ligand for the heterodimeric receptor formed by SORCS2 and NGFR, and activates cellular signaling cascades that lead to inactivation of RAC1 and/or RAC2, reorganization of the actin cytoskeleton and neuronal growth cone collapse. In contrast to mature NGF, the precursor form (proNGF) promotes



neuronal apoptosis (in vitro) (By similarity). Inhibits metalloproteinase-dependent proteolysis of platelet glycoprotein VI (PubMed:<a href="http://www.uniprot.org/citations/20164177" target="\_blank">20164177</a>). Binds lysophosphatidylinositol and lysophosphatidylserine between the two chains of the homodimer. The lipid-bound form promotes histamine relase from mast cells, contrary to the lipid-free form (By similarity).

#### **Cellular Location**

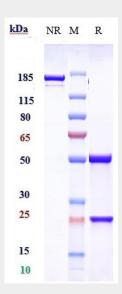
Secreted. Endosome lumen {ECO:0000250|UniProtKB:P01139}. Note=ProNGF is endocytosed after binding to the cell surface receptor formed by SORT1 and NGFR {ECO:0000250|UniProtKB:P01139}

# Anti-NGF / bNGF Reference Antibody (MEDI-578) - Protocols

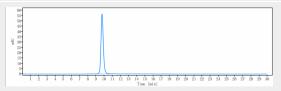
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

# Anti-NGF / bNGF Reference Antibody (MEDI-578) - Images



Anti-NGF / bNGF Reference Antibody (MEDI-578) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%



The purity of Anti-NGF / bNGF Reference Antibody (MEDI-578)is more than 95% ,determined by SEC-HPLC.