

**Anti-NGF / bNGF Reference Antibody (MEDI-578)**  
**Recombinant Antibody**  
**Catalog # APR10438****Specification**

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

Application	FC, Kinetics, Animal Model
Primary Accession	<a href="#">P01138</a>
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG4SP
Calculated MW	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 release from mast cells, contrary to the lipid-free form (By similarity).

#### Cellular Location

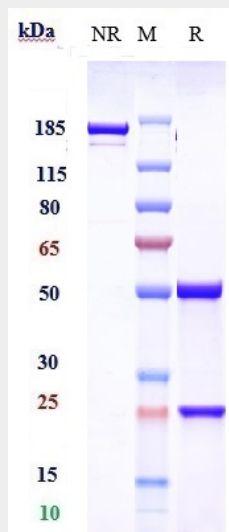
Secreted. Endosome lumen {ECO:0000250|UniProtKB:P01139}. Note=ProNGF is endocytosed after binding to the cell surface receptor formed by SORT1 and NGFR {ECO:0000250|UniProtKB:P01139}

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

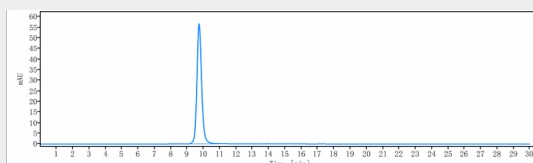
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [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.