

AP06168PU-N**Polyclonal Antibody to Neuregulin 1 - Aff - Purified****Alternate names:**

Acetylcholine receptor-inducing activity, Breast cancer cell differentiation factor p45, GGF, Glial growth factor, HGL, HRG, HRGA, Heregulin, NDF, NRG1, Neu differentiation factor, Pro-neuregulin-1 membrane-bound isoform, SMDF, Sensory and motor neuron-derived factor

Quantity:

0.1 mg

Concentration:

1.0 mg/ml

Background:

The neuregulins are a family of ErbB/HER ligands encoded by four genes. Neuregulin-1 gene, NRG1, encodes numerous splice variants with differing transcription initiation sites. Neuregulin-1 includes a range of isoforms with varying glycosylation, regulation of expression and function. Neuregulin-1 splice variants each bear an EGF-like domain, though otherwise have unique domain structures, differing functions and discrete tissue distribution. Six types of Neuregulin-1 isoform groups have been defined based on their structural features. Three types are most often described, type I (ARIA, NDF or HRG), type II (GGF) and type III (SMDF). Neuregulin-1 has been linked to schizophrenia and has diverse neural functions. Neuregulin-1 affects cell migration, the differentiation of neural crest and Schwann cells, and acts to upregulate the expression of acetylcholine receptors at muscle fibers during the formation of neuromuscular junctions.

Uniprot ID:[Q02297](#)**NCBI:**[NP_001153467.1](#)**GeneID:**[3084](#)**Host:**

Rabbit

Immunogen:

Synthetic peptide, corresponding to the N-terminal of Human Neuregulin-1/SMDF.

Format:**State:** Liquid purified Ig fraction (> 95% pure by SDS-PAGE)**Purification:** Affinity Chromatography using epitope-specific immunogen**Buffer System:** Phosphate buffered saline (PBS), pH~7.2**Preservatives:** 0.05% Sodium Azide**Applications:****Western blot:** 1/500-1/1000.**Immunofluorescence:** 1/50-1/200.**Immunohistochemistry on Paraffin Sections:** 1/50-1/200.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

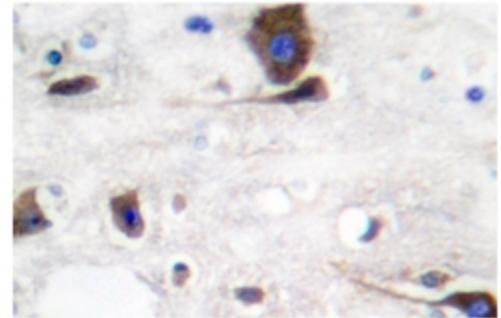
Molecular Weight:

~44 kDa

Specificity:This antibody detects endogenous levels of SMDF/Neuregulin-1 protein.
(region surrounding Tyr4)**Species Reactivity:****Tested:** Human.**Expected from sequence similarity:** Mouse and Rat.

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
 Avoid repeated freezing and thawing.
 Shelf life: one year from despatch.

Pictures: **Immunohistochemistry (IHC)** analysis of Neuregulin-1/SMDF antibody (Cat.-No.: AP06168PU-N) in paraffin-embedded human brain tissue.



Western blot (WB) analysis of SMDF/Neuregulin 1 antibody (Cat.-No.: AP06168PU-N) in extracts from SKOV3 cells.

