

AM50006PU-N**Monoclonal Antibody to Neuregulin 1 (Beta-3) - 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 ml
Concentration:	1.0 mg/ml
Background:	Neuregulin1 (NRG1) is one of four proteins in the neuregulin family that act on the Epidermal growth factor receptor (EGFR) family of receptors. NRG1 was originally identified as a 44 kDa glycoprotein that interacts with the ERBB2 receptor tyrosine kinase to increase its phosphorylation on tyrosine residues. In many brain areas, NRG1 is expressed at synaptic regions and its processing can be regulated by neuronal activity. This variant (HRG-beta3) of NRG1, along with HRG-alpha, beta1 and beta2 variants, was identified in various normal tissues and cancer cell lines.
Uniprot ID:	Q02297
NCBI:	NP_039252.2
GeneID:	3084
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	k1G13
Immunogen:	Recombinant Human NRG1 isoform HRG-beta-3 (20-241aa) purified from <i>E. coli</i> .
Format:	State: Liquid purified Ig fraction Purification: Affinity Chromatography on Protein G Buffer System: PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol
Applications:	The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Recommended dilution range for Western blot analysis is 1/1,000~1/2,000. Recommended starting dilution is 1/1,000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This Monoclonal <i>k1G13</i> antibody recognizes Human NRG1 (HRG-beta-3). Other species not tested.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	Talmage D.A, et al., (2008) Novartis Found Symp. 289:74-93. Li B, et al., (2007) Neuron. 54(4):583-597. Law A.J, et al., (2006) Proc Natl Acad Sci U S A. 103(17):6747-6752.

Pictures:

Western Blot analysis: Cell lysates of 293T (20ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human NRG1 (1/1,000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

