

Monoclonal Antibody to Neuregulin-1 (Extracell. Dom) - Purified

Alternate names:	ERBB2 p185-activator), alpha (45kD, glial growth factor, heregulin, membrane-bound isoform, neu differentiation factor, neuregulin 1, pro-neuregulin-1, sensory and motor neuron derived factor
Catalog No.:	AM50539PU-N
Quantity:	0.1 mg
Concentration:	lot-specific
Background:	The group of Neuregulin-1 proteins are cell-cell signaling molecules and are ligands for receptor tyrosine kinases of the ErbB/HER subfamily. Type III NRG1 proteins (also referred to as CRD-NRG1 proteins) play a critical role in neural development, including myelination, motor and sensory neuron survival, and neuromuscular synapse development (Falls, 2003). Defects in animals lacking type III NRGs include retraction of nerve terminals from newly formed synapses, absence of Schwann cells from peripheral nerves, and loss of motor and sensory neurons (Wolpowitz et al., 2000). Available evidence indicates that most Type III NRG1 proteins are synthesized as transmembrane proteins with 2 TM domains, and that proteolytic processing produces a bioactive transmembrane form (NTFm) which serves as a juxtacrine signal (Wang, 2001; Falls, 2003).
Uniprot ID:	Q6DR99
NCBI:	NP_848706.2
GeneID:	211323
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	AM03095PU-N
Clone:	D11
Immunogen:	His-tagged recombinant protein corresponding to mouse Neuregulin-1 at the extracellular domain.
Format:	State: Liquid purified Ig fraction Purification: Protein G Chromatography Buffer System: 0.1 M Tris-Glycine (pH 7.4), 150 mM NaCl with 0.05% sodium azide.
Applications:	Immunocytochemistry: A previous lot of this antibody was used successfully by an independent laboratory in IC. (Pirotte, D., et al.) Western Blot: 0.25 µg/mL of this antibody detected Neuregulin-1 on 10 µg of mouse brain microsomal tissue lysate. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody recognizes Neuregulin-1 at the extracellular domain. Demonstrated to react with mouse.

Storage: Store undiluted at 2-8°C.
Shelf life: one year from despatch.

Pictures: Western Blotting Analysis:
Representative lot data.
Mouse brain microsomal tissue lysate was probed with Anti-Neuregulin-1, clone D11 (0.25 µg/mL).
Proteins were visualized using a Goat Anti-Mouse IgG secondary antibody conjugated to HRP and a chemiluminescence detection system.
Arrow indicates Neuregulin-1 (~29 kDa).

