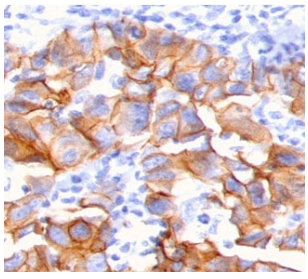
NRG1 Antibody / Neuregulin-1 [clone HRGA1-1] (V7634)

Catalog No.	Formulation	Size
V7634-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7634-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7634SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	HRGA1-1
Purity	Protein G affinity chromatography
UniProt	Q02297
Localization	Cell surface, cytoplasmic
Applications	Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This NRG1 antibody is available for research use only.



IHC staining of FFPE human breast carcinoma with NRG1 antibody (clone HRGA1-1). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.

Description

NRG1 antibody targets neuregulin-1, a member of the epidermal growth factor family that plays a vital role in cell signaling and development. Neuregulin-1 interacts primarily with ERBB family receptors, stimulating diverse cellular responses including proliferation, survival, and differentiation. It is widely expressed in neural, cardiac, and epithelial tissues, where it contributes to processes such as axon myelination, synaptic plasticity, and cardiac morphogenesis. By binding to ERBB2, ERBB3, and ERBB4 receptors, NRG1 helps regulate communication between neurons and glial cells, making it a key protein for nervous system health.

NRG1 antibody has highlighted its importance in disease mechanisms. Aberrant signaling of neuregulin-1 and its receptors has been implicated in several forms of cancer, including breast and lung carcinoma, where dysregulated growth factor signaling promotes tumor progression. In addition, altered NRG1 expression has been studied in schizophrenia and other neuropsychiatric disorders due to its role in synaptic transmission. Investigators often focus on its involvement in demyelinating diseases, given its essential function in Schwann cell development and peripheral nerve repair.

The recombinant clone against neuregulin-1 provides researchers with a reliable tool for assays such as western blot, immunohistochemistry, and flow cytometry. Clone validation studies demonstrate strong specificity, ensuring dependable detection of the protein in tissue extracts and cell-based systems. This antibody has proven useful for evaluating signaling cascades downstream of ERBB receptor activation and for assessing how neuregulin-1 contributes to cellular crosstalk in developmental and disease contexts.

NSJ Bioreagents supplies this NRG1 antibody for research applications, helping scientists explore pathways related to neurobiology, oncology, and cardiovascular function. Alternate names include neuregulin-1 antibody, GGF2 antibody, ARIA antibody, heregulin antibody, NDF antibody, HRG antibody, and HGL antibody.

For additional information on neuregulin biology and broader human, mouse and rat validation, visit our NRG1 Antibody / ErbB Receptor Ligand Antibody page.

Application Notes

Optimal dilution of the NRG1 antibody should be determined by the researcher.

Immunogen

A recombinant human partial protein (amino acids 21-242) was used as the immunogen for the NRG1 antibody.

Storage

Store the NRG1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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