

Basic Information

Product Name	Anti-NRG1 Antibody	
Gene Name	NRG1	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC, ICC/IF	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human NRG1, different from the related rat and mouse sequences by one amino acids.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	100,65,40 kDa	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

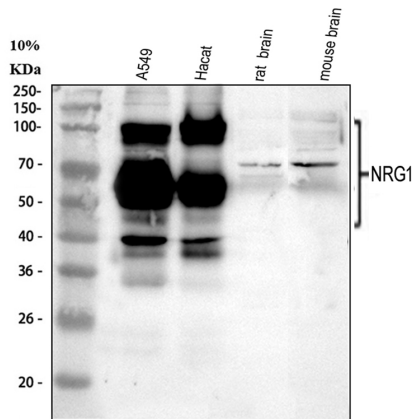
Storage

12 months from date of receipt, -20°C as supplied.

Background Information

NRG1(Neuregulin 1), also known as ARIA, NDF or HRGA, is a protein that in humans is encoded by the NRG1 gene. NRG1 is one of four proteins in the neuregulin family that act on the EGFR family of receptors. By in situ hybridization of a tritium-labeled probe to human metaphase spreads, Orr-Urtreger et al.(1993) localized the NDF gene to 8p21-p12. In mouse embryos 14.5 days postcoitum, Orr-Urtreger et al.(1993) found that NDF expression is confined predominantly to the central and peripheral nervous systems, including the neuroepithelium that lines the lateral ventricles of the brain, the ventral horn of the spinal cord, and the intestinal as well as dorsal root ganglia.

Selected Validation Data



Western blot analysis of NRG1 using anti-NRG1 antibody (BA3235). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

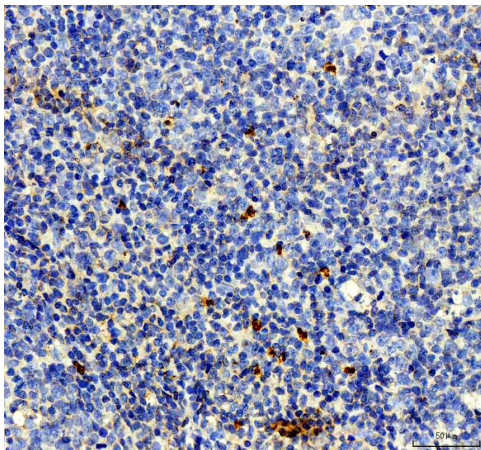
Lane 1: human A549 whole cell lysates,

Lane 2: human Hacat whole cell lysates,

Lane 3: rat brain tissue lysates,

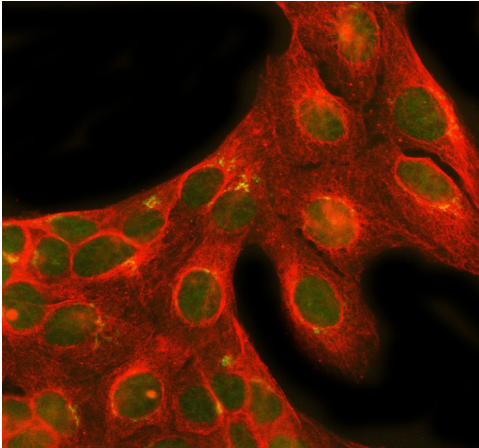
Lane 4: mouse brain tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-NRG1 antigen affinity purified polyclonal antibody (BA3235) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for NRG1 at approximately 100,65,40 kDa. The expected band size for NRG1 is at 70,65,40,25 kDa.



IHC analysis of NRG1 using anti-NRG1 antibody (BA3235).

NRG1 was detected in a paraffin-embedded section of human tonsil tissue. The tissue section was incubated with rabbit anti-NRG1 Antibody (BA3235) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.



IF analysis of NRG1 using anti-NRG1 antibody (BA3235) and anti-Beta Tubulin antibody (M01857-3).

NRG1 was detected in an immunocytochemical section of U2OS cells. The section was incubated with rabbit anti-NRG1 Antibody (BA3235) at a dilution of 1:100. Dylight488-conjugated Anti-rabbit IgG Secondary Antibody (green)(Catalog#BA1127) and Dylight550-conjugated Anti-mouse IgG Secondary Antibody (red)(Catalog#BA1133) were used as secondary antibody.