

Basic Information

Product Name	Anti-NRG1 Antibody
Gene Name	NRG1
Source	Rabbit
Isotype	IgG
Species Reactivity	human, mouse ,rat
Tested Application	WB
Contents	500ug/ml antibody with PBS , 0.02% NaN ₃ , 1mg BSA and 50% glycerol.
Immunogen	E.coli-derived human NRG1 recombinant protein (Position: S2-K241). Human NRG1 shares 94% amino acid (aa) sequence identity with rat NRG1.
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	70KD
Dilution Ratios	Western blot (WB):1:500-2000

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

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



Figure 1. Western blot analysis of NRG1 using anti-NRG1 antibody (PB0328). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: MCF-7 Whole Cell Lysate, Lane 2: SKOV Whole Cell Lysate, Lane 3: 22RV1 Whole Cell Lysate, Lane 4: COLO320 Whole Cell Lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NRG1 antigen affinity purified polyclonal antibody (Catalog # PB0328) at 0.5 μ g/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for NRG1 at approximately 70KD. The expected band size for NRG1 is at 70KD.