

Neuregulin/Heregulin-1 β Antibody

Rabbit Anti Human Polyclonal Antibody

Catalog # ABV11703

Product Information

Application	WB
Primary Accession	Q15491
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG

Additional Information

Positive Control	Western blot: Recombinant protein
Application & Usage	Western blot: ~1:200
Other Names	NGR beta 1, Heregulin, HRG 1beta, Neuregulin
Target/Specificity	Heregulin 1 beta
Antibody Form	Liquid
Appearance	Colorless liquid
Formulation	30 μ g (0.5 mg/ml) of antibody in PBS pH 7.2 containing 0.01 % BSA, 0.01 % thimerosal, and 50 % glycerol.
Handling	The antibody solution should be gently mixed before use.
Reconstitution & Storage	-20 °C
Background Descriptions	
Precautions	Neuregulin/Heregulin-1 β Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Background

Neuregulin/Heregulin is a family of structurally related polypeptide growth factors derived from alternatively spliced genes (NRG1, NRG2, NRG3 and NRG4). To date, there are over 14 soluble and transmembrane proteins derived from the NRG1 gene. Proteolytic processing of the extracellular domain of the transmembrane NRG1 isoforms release soluble growth factors. HRG1- β 1 contains an Ig domain and an EGF-like domain that is necessary for direct binding to receptor tyrosine kinases erb3 and erb4. This binding induces erb3 and erb4 heterodimerization with erb2, stimulating intrinsic kinase activity, which leads to

tyrosine phosphorylation. Although HRG1- β 1 biological effects is still unclear, it has been found to promote motility and invasiveness of breast cancer cells which may also involve up-regulation of expression and function of the autocrine motility-promoting factor (AMF). Recombinant human Heregulin- β 1 (HRG1- β 1) is a 7.5 kDa polypeptide consisting of only the EGF domain of Heregulin- β 1 (65 amino acid residues).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.