Heregulin Antibody (Catalog # 2573) Datasheet Without Images

Heregulin Antibody (#2573)

Specifications:
Store at -20°C

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:
WB

Reactivity:
H M

Sensitivity:
Endogenous

MW (kDa):
105

Source:
Rabbit

UniProt ID:
#Q02297

Entrez-Gene Id:
3084

Product Usage Information

Application
Western Blotting

Dilution
1:1000

Storage
Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity / Sensitivity
Heregulin Antibody detects endogenous levels of total heregulin proteins. The antibody does not cross-react with other family members.

Source / Purification
Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His494 of human heregulin. Antibodies are purified by protein A and peptide affinity chromatography.

Background
Heregulin (HRG), also called neuregulin (NRG1), neu differentiation factor (NDF) or glial growth factor-2 (GGF-2), is a soluble growth factor synthesized as a transmembrane precursor molecule. Metalloproteinases and other proteases catalyze the cleavage of its extracellular domain which is then released and functions as a ligand for ErbB3 and ErbB4 receptor tyrosine kinase. The signaling pathways of HRG-ErbB3/ErbB4 are involved in regulation of cell proliferation, differentiation, invasion, and survival of both normal and malignant tissues (1,2). Abnormality of HRG-ErbB signaling leads to development of a variety of human diseases.

HRG family has four isoforms including HRG-1, -2, -3 and -4, which are derived from alternative exon splicing. Moreover, they showed various tissue expression and biological activities (3).

Background References

Species Reactivity
Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer
IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key
WB: Western Blotting

Cross-Reactivity Key

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