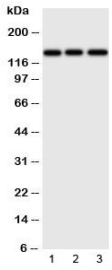
ERBB4 Antibody (HER4) (R30981)

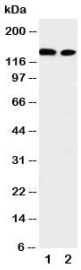
Catalog No.	Formulation	Size
R30981	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

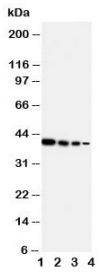
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	Q15303
Applications	Western blot: 0.5-1ug/ml
Limitations	This ERBB4 antibody is available for research use only.



Western blot testing of ERBB4 antibody and Lane 1: human HeLa; 2: (h) U87; 3: mouse Neuro-2a cell lysate. Predicted molecular weight: 147-180kDa (precursor), 120, 80 kDa (cleaved forms). Observed here at ~147kDa.



Western blot testing of ERBB4 antibody and Lane 1: A549; 2: HeLa cell lysate. Predicted molecular weight: 147-180kDa (precursor), 120, 80 kDa (cleaved forms). Observed here at ~147kDa.



Western blot testing of ERBB4 antibody and Lane 1: Recombinant human partial protein 10ng; 2: 5ng; 3: 2.5ng; 4: 1.25ng

Description

V-erb-b2 avian erythroblastic leukemia viral oncogene homolog 4, also known as HER4, is an enzyme that in humans is encoded by the ERBB4 gene. The HER4/ERBB4 gene is a member of the type I receptor tyrosine kinase subfamily that includes EGFR, ERBB2 and ERBB3. ERBB4 is a single-pass type I transmembrane protein with multiplefurin-like cysteine rich domains, a tyrosine kinase domain, a phosphotidylinositol-3 kinase binding site and aPDZ domainbinding motif.Huang et al.(2000) reported that the proteinis enriched in the postsynaptic density and associates with PSD95. Itis a transmembrane receptor tyrosine kinase that regulates cell proliferation and differentiation. After binding its ligand, heregulin, or activation of protein kinase C by TPA, the ERBB4 ectodomain is cleaved by a metalloprotease. Ni et al.(2001)concluded that gamma-secretase cleavage ofthe proteinmay represent another mechanism for receptor tyrosine kinase-mediated signaling.

For detection of total HER4 expression, see our HER4 antibody page.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the ERBB4 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the N-terminus of human ErbB4/HER4 (KLSSLSDLEQQYRALRK) was used as the immunogen for this ERBB4 antibody (100% homologous in human, mouse and rat).

Storage

After reconstitution, the ERBB4 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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