

ERBB4 Antibody (HER4) (R30981)

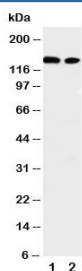
Catalog No.	Formulation	Size
R30981	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

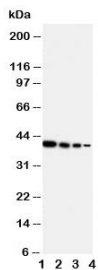
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	Q15303
Applications	Western Blot : 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 multiple furin-like cysteine rich domains, a tyrosine kinase domain, a phosphatidylinositol-3 kinase binding site and a PDZ domain binding motif. Huang et al. (2000) reported that the protein is enriched in the postsynaptic density and associates with PSD95. It is 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 of the protein may represent another mechanism for receptor tyrosine kinase-mediated signaling.

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 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.