

ErbB-4 (Phospho Tyr1284) Rabbit pAb

CatalogNo: YP0924 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 180kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

IF 1:200-1:1000

ELISA 1:10000

Not yet tested in other applications.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human HER4 around the phosphorylation site of Tyr1284. AA range:1250-1299

Specificity

Phospho-ErbB-4 (Y1284) Polyclonal Antibody detects endogenous levels of ErbB-4 protein only when phosphorylated at Y1284. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):PEyLS

Target Information

Gene name ERBB4 HER4

Protein Name Receptor tyrosine-protein kinase erbB-4

Organism	Gene ID	UniProt ID
Human	2066 ;	Q15303 ;
Mouse	13869 ;	Q61527 ;
Rat	59323 ;	Q62956 ;

Cellular Localization

Cell membrane ; Single-pass type I membrane protein . In response to NRG1 treatment , the activated receptor is internalized.; [ERBB4 intracellular domain]: Nucleus . Mitochondrion . Following proteolytical processing E4ICD (E4ICD1 or E4ICD2 generated from the respective isoforms) is translocated to the nucleus. Significantly more E4ICD2 than E4ICD1 is found in the nucleus. E4ICD2 colocalizes with YAP1 in the nucleus.

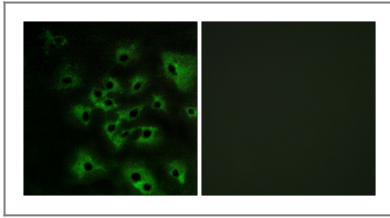
Tissue specificity

Expressed at highest levels in brain , heart , kidney , in addition to skeletal muscle , parathyroid , cerebellum , pituitary , spleen , testis and breast. Lower levels in thymus , lung , salivary gland , and pancreas. Isoform JM-A CYT-1 and isoform JM-B CYT-1 are expressed in cerebellum , but only the isoform JM-B is expressed in the heart.

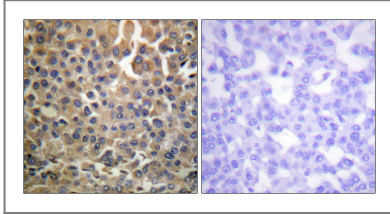
Function

Catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate. ,Domain:The WW-binding motifs mediate interaction with WWOX. ,Function:Specifically binds and is activated by neuregulins , NRG-2 , NRG-3 , heparin-binding EGF-like growth factor , betacellulin and NTAK. Interaction with these factors induces cell differentiation. Not activated by EGF , TGF-A , and amphiregulin. ,PTM:Isoform JM-A is processed but not isoform JM-B. So , they respectively represent cleavable and non-cleavable forms of the receptor. ,PTM:Ligand-binding increases phosphorylation on tyrosine residues. ,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. EGF receptor subfamily. ,similarity:Contains 1 protein kinase domain. ,subunit:Homodimer or heterodimer with each of the other ERBB receptors (Potential) . Interacts with PDZ domains of DLG2 , DLG3 , DLG4 and the syntrophin SNTB2. Interacts with CBFA2T3 , MUC1 and WWOX. ,tissue specificity:Expressed at highest levels in brain , heart , kidney , in addition to skeletal muscle , parathyroid , cerebellum , pituitary , spleen , testis and breast. Lower levels in thymus , lung , salivary gland , and pancreas. Isoform JM-A and isoform JM-B are expressed in cerebellum , but only the isoform JM-B is expressed in the heart. ,

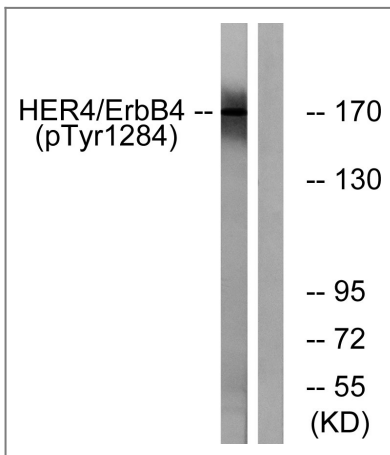
Validation Data



Immunofluorescence analysis of HeLa cells treated with EGF 200nM 5', using HER4 (Phospho-Tyr1284) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using HER4 (Phospho-Tyr1284) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HUVEC cells treated with EGF 200ng/ml 30', using HER4 (Phospho-Tyr1284) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

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ErbB-4 (Phospho Tyr1284) Rabbit pAb

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