Best Tools for immunology Research

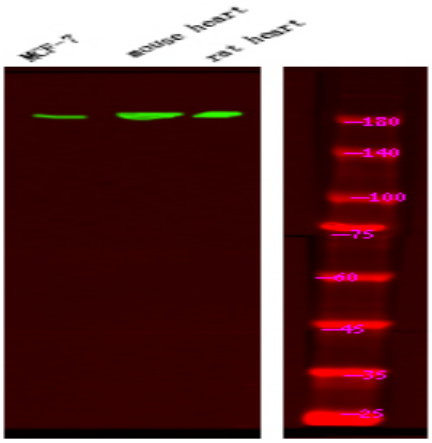
HER4 (Phospho Tyr1242) Rabbit pAb

Catalog No :	YP1810
Reactivity :	Human;Mouse;Rat
Applications :	IHC;WB
Target :	HER4/ErbB4
Fields :	>>MAPK signaling pathway;>>ErbB signaling pathway;>>Calcium signaling pathway;>>PI3K-Akt signaling pathway;>>Amyotrophic lateral sclerosis;>>Proteoglycans in cancer
Gene Name :	ERBB4 HER4
Protein Name :	Receptor tyrosine-protein kinase erbB-4 (EC 2.7.10.1) (Proto-oncogene-like protein c-ErbB-4) (Tyrosine kinase-type cell surface receptor HER4) (p180erbB4) [Cleaved into: ERBB4 intracellular domain (4I
Human Gene Id :	2066
Human Swiss Prot No :	Q15303
Mouse Gene Id :	13869
Mouse Swiss Prot No :	Q61527
Rat Gene Id :	59323
Rat Swiss Prot No :	Q62956
Immunogen :	Synthesized peptide derived from human HER4 (Phospho Tyr1242)
Specificity :	This antibody detects endogenous levels of HER4 (Phospho Tyr1242) Rabbit pAb at Human, Mouse,Rat
Formulation :	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source :	Rabbit,polyclonal

Dilution :	WB 1:500-2000 IHC 1:50-200
Purification :	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	180kD
Background :	erb-b2 receptor tyrosine kinase 4(ERBB4) Homo sapiens This gene is a member of the Tyr protein kinase family and the epidermal growth factor receptor subfamily. It encodes a single-pass type I membrane protein with multiple cysteine rich domains, a transmembrane domain, a tyrosine kinase domain, a phosphotidylinositol-3 kinase binding site and a PDZ domain binding motif. The protein binds to and is activated by neuregulins and other factors and induces a variety of cellular responses including mitogenesis and differentiation. Multiple proteolytic events allow for the release of a cytoplasmic fragment and an extracellular fragment. Mutations in this gene have been associated with cancer. Alternatively spliced variants which encode different protein isoforms have been described; however, not all variants have been fully characterized. [provided by RefSeq, Jul 2008],
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 SN
Subcellular Location :	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.
Expression :	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.

Products Images



Western Blot analysis of mouse brain tissue, MCF-7 rat brain tissue using primary antibody at 1:1000 dilution 4°C, overnight. Secondary antibody(catalog#:RS23920) was diluted at 1:10000 25°C 1.5hours