

HER2 (Phospho Tyr1196) Rabbit pAb

CatalogNo: YP1351

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- WB

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 1:1000-2000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized phospho peptide around human HER2 and ErbB2 (Tyr1196)

Specificity This antibody detects endogenous levels of Human Mouse HER2/ErbB2 (phospho-Tyr1196)

Target Information

Gene name ERBB2 HER2 MLN19 NEU NGL

Protein Name HER2/ErbB2 (Tyr1196)

Organism	Gene ID	UniProt ID
Human	2064 ;	P04626 ;
Mouse	13866 ;	P70424 ;
Rat		P06494 ;

Cellular Localization

[Isoform 1]: Cell membrane ; Single-pass type I membrane protein. Early endosome . Cytoplasm , perinuclear region. Nucleus. Translocation to the nucleus requires endocytosis , probably endosomal sorting and is mediated by importin beta-1/KPNB1. Also detected in VPS35-positive endosome-to-TGN retrograde vesicles (PubMed:31138794) . .; [Isoform 2]: Cytoplasm. Nucleus.; [Isoform 3]: Cytoplasm. Nucleus.

Tissue specificity

Expressed in a variety of tumor tissues including primary breast tumors and tumors from small bowel , esophagus , kidney and mouth.

Function

Catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate. ,Disease:Defects in ERBB2 are associated with familial glioma of brain [MIM:137800]; also called glioblastoma multiforme. Gliomas are central nervous system neoplasms derived from glial cells and comprise astrocytomas , glioblastoma multiforme , oligodendrogliomas , and ependymomas. ,Disease:Defects in ERBB2 are associated with gastric cancer [MIM:137215]; also known as hereditary familial diffuse gastric cancer (HDGC) . ,Disease:Defects in ERBB2 are associated with lung cancer [MIM:211980]; also called adenocarcinoma of lung. ,Disease:Defects in ERBB2 are associated with ovarian cancer [MIM:167000]. Ovarian cancer is the leading cause of death from gynecologic malignancy. It is characterized by advanced presentation with loco-regional dissemination in the peritoneal cavity and the rare incidence of visceral metastases. These typical features relate to the biology of the disease , which is a principal determinant of outcome. ,Function:Essential component of a neuregulin-receptor complex , although neuregulins do not interact with it alone. GP30 is a potential ligand for this receptor. Not activated by EGF , TGF-alpha and amphiregulin. ,online information:ERBB2 entry ,polymorphism:There are four alleles due to the variations in positions 654 and 655. Allele B1 (Ile-654/Ile-655) has a frequency of 0.782; allele B2 (Ile-654/Val-655) has a frequency of 0.206; allele B3 (Val-654/Val-655) has a frequency of 0.012. ,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:Heterodimer with each of the other ERBB receptors (Potential) . Interacts with PRKCABP and PLXNB1. Part of a complex with EGFR and either PIK3C2A or PIK3C2B. May interact with PIK3C2B when phosphorylated on Tyr-1196. Interacts with MEMO when phosphorylated on Tyr-1248. Interacts with MUC1. Stimulation by heregulin (HRG) in breast cancer cell lines induces binding of MUC1 with gamma-catenin. ,

| Validation Data

| Contact information

Orders: order.cn@immunoway.com
Support: support.cn@immunoway.com
Telephone: 400-8787-807(China)
Website: <http://www.immunoway.com.cn>
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



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Tyr1196) Rabbit
pAb**

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