

HER2 (11H9) Mouse mAb

CatalogNo: YM3045

Orthogonal Validated 

Key Features

Host Species

- Mouse

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF

MW

- 180kD (Observed)

Storage

Storage*

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

Formulation

PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.

Recommended Dilution Ratios

WB 1:2000-4000

IHC 1:200

IF 1:200

Basic Information

Clonality

Monoclonal

Clone Number

11H9

Immunogen Information

Immunogen

Synthetic Peptide of HER2

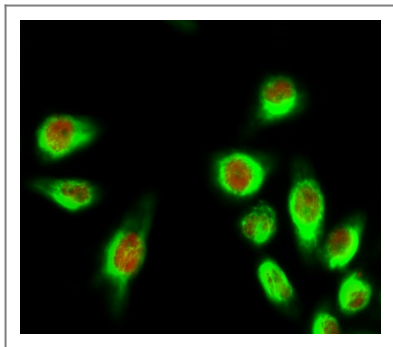
Specificity

The antibody detects endogenous ErbB-2/HER-2 proteins.

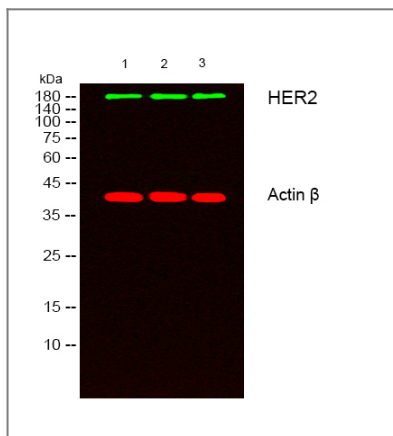
Target Information

Gene name	ERBB2 HER2 MLN19 NEU NGL		
Protein Name	Receptor tyrosine-protein kinase erbB-2		
	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 fours 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. ,		

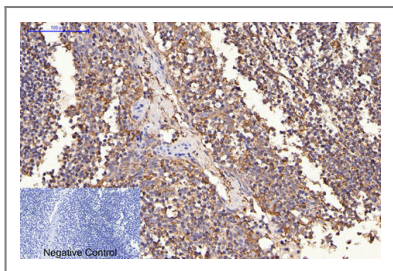
| Validation Data



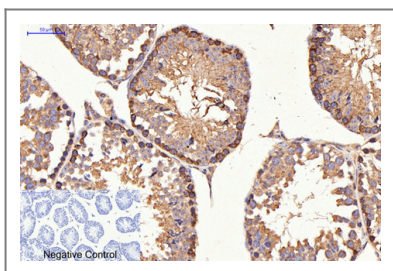
Immunofluorescence analysis of HeLa cell. 1, Rabbit Histone H3 Antibody YM8335 (red) was diluted at 1:200 (4°C overnight). HER2 (11H9) Mouse mAb (green) was diluted at 1:200 (4°C overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog:RS3611 was diluted at 1:1000 (room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 Catalog:RS3208 was diluted at 1:1000 (room temperature, 50min).



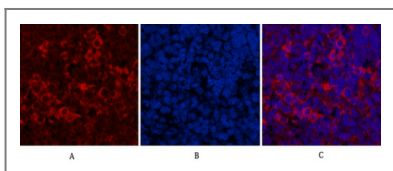
Western blot analysis of lysates from 1) HeLa, 2) A431, 3) MCF-7 cells, (Green) primary antibody was diluted at 1:1000, 4°C over night, secondary antibody (cat:RS23910) was diluted at 1:10000, 37° 1hour. (Red) Actin β Polyclonal Antibody (cat:YT0099) antibody was diluted at 1:5000 as loading control, 4°C over night, secondary antibody (cat:RS23720) was diluted at 1:10000, 37° 1hour.



Immunohistochemical analysis of paraffin-embedded Human-Tonsil tissue. 1, HER2 Monoclonal Antibody (11H9) was diluted at 1:200 (4°C overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Mouse-testis tissue. 1, HER2 Monoclonal Antibody (11H9) was diluted at 1:200 (4°C overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.



Immunofluorescence analysis of Rat-spleen tissue. 1, HER2 Monoclonal Antibody (11H9) (red) was diluted at 1:200 (4°C overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B

Contact information

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Please scan the QR code
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product information:
**HER2 (11H9) Mouse
mAb**

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