

For Research Use Only

HER2/ErbB2 Monoclonal antibody

Catalog Number: 60311-1-Ig **6 Publications**



Basic Information

Catalog Number: 60311-1-Ig	GenBank Accession Number: BC156755	Purification Method: Protein A purification
Size: 150ul , Concentration: 1500 ug/ml by Nanodrop;	GeneID (NCBI): 2064	CloneNo.: 1B12A7
Source: Mouse	UNIPROT ID: P04626	Recommended Dilutions: IHC: 1:800-1:3200 IF-P: 1:50-1:500 FC: 0.20 ug per 10 ⁶ cells in a 100 µl suspension
Isotype: IgG2b	Full Name: v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian)	
Immunogen Catalog Number: AG16463	Calculated MW: 1255 aa, 138 kDa	

Applications

Tested Applications: IHC, IF-P, ELISA	Positive Controls:
Cited Applications: IHC, IF	IHC : human breast cancer tissue,
Species Specificity: human	IF-P : human breast cancer tissue,
Cited Species: human	FC : SK-BR-3 cells,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

HER2, ErbB2, and Neu is a 185-kDa transmembrane glycoprotein member of the epidermal growth factor (EGF) receptor family of receptor tyrosine kinases. It has no ligand-binding domain and therefore cannot bind growth factors. However, it does bind tightly to other ligand-bound EGF receptor family members to form a heterodimer, stabilizing ligand binding and enhancing kinase-mediated activation of downstream signalling pathways, such as those involving mitogen-activated protein kinase and phosphatidylinositol-3 kinase. Amplification and/or overexpression of HER2 have been reported in numerous cancers, including breast and ovarian tumors. HER2 is a therapeutic target for the treatment of breast cancer and other carcinomas.

Notable Publications

Author	Pubmed ID	Journal	Application
Yanlin Wu	30127983	Oncol Lett	IHC
Fei Xing	36627608	Mol Cancer	IF
Xin Zhou	32127954	J Cancer	IHC

Storage

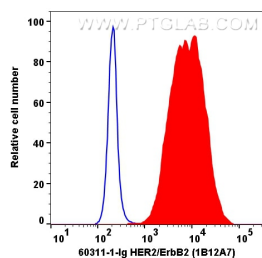
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

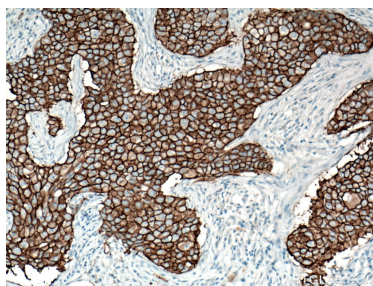
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

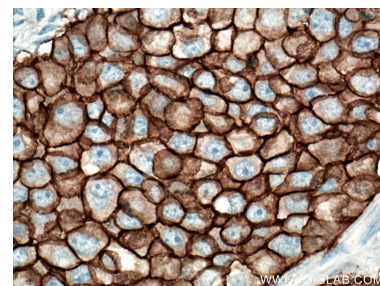
Selected Validation Data



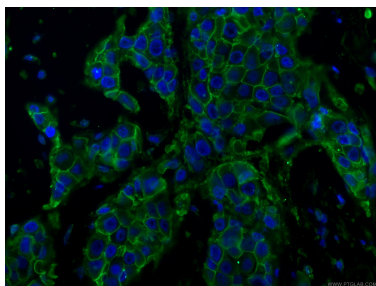
1x10⁶ SK-BR-3 cells were surface stained with 0.2 µg HER2/ErbB2 Monoclonal antibody (60311-1-Ig, Clone: 1B12A7) and CoraLite® Plus 647-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO.RGAM005). Mouse IgG2b isotype control (66360-3-Ig, Clone: 11B8C4) was parallel stained as control. Cells were not fixed.



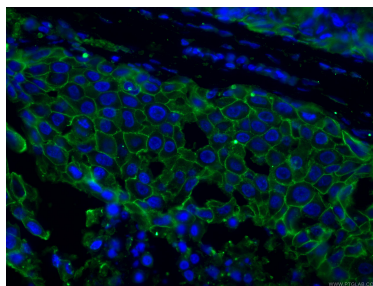
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60311-1-Ig (HER2/ErbB2 antibody) at dilution of 1:1600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



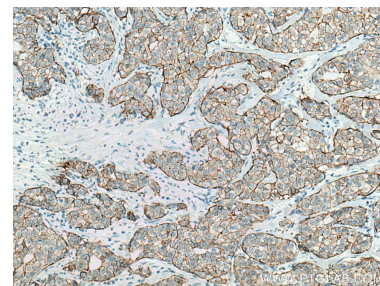
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60311-1-Ig (HER2/ErbB2 antibody) at dilution of 1:1600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using 60311-1-Ig (HER2/ErbB2 antibody), at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using 60311-1-Ig (HER2/ErbB2 antibody), at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60311-1-Ig (HER2/ErbB2 antibody) at dilution of 1:40000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).