For Research Use Only

HER2/ErbB2 Monoclonal antibody

Catalog Number:60311-1-Ig 6 Publications

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Basic Information

Catalog Number:
60311-1-Ig

Concentration:
1500 ug/ml

Source:
Mouse

Isotype:
IgG2b

Immunogen Catalog Number:
AG16463

GenBank Accession Number:
BC156755

GeneID (NCBI):
2064

UNIPROT ID:
P04626

Full Name:
v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian)

Calculated MW:
1255 aa, 138 kDa

Purification Method:
Protein A purification

CloneNo.:
1B12A7

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

Applications

Tested Applications:
IHC, IF-P, ELISA

Cited Applications:
IHC, IF

Species Specificity:
human

Cited Species:
human

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

Positive Controls:

IHC : human breast cancer tissue,

IF-P : human breast cancer tissue,

FC : SK-BR-3 cells,

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

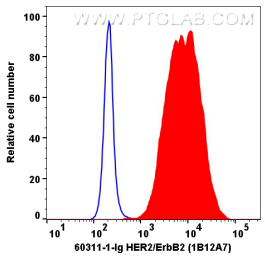
Author	Pubmed ID	Journal	Application
Yanlin Wu	30127983	Oncol Lett	IHC
Fei Xing	36627608	Mol Cancer	IF
Xin Zhou	32127954	J Cancer	IHC

Storage

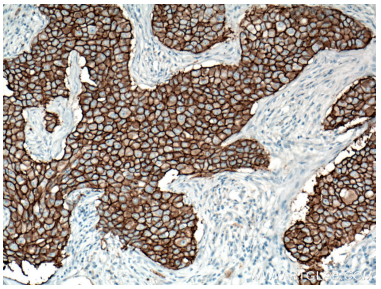
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

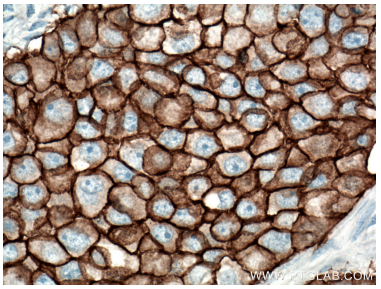
Selected Validation Data



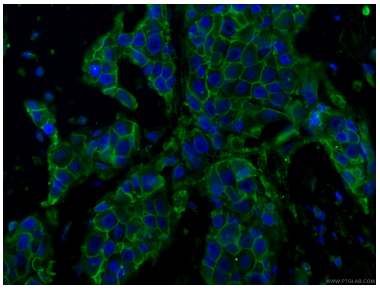
1x10^6 SK-BR-3 cells were surface stained with 0.2 μg HER2/ErbB2 Monoclonal antibody (60311-1-Ig, Clone: 1B12A7) and CoraLite® Plus 647-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO.RGAM005). Mouse IgG2b isotype control (66360-3-Ig, Clone: 11B8C4) was parallel stained as control. Cells were not fixed.



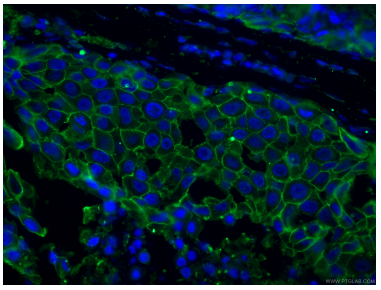
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60311-1-Ig (HER2/ErbB2 antibody) at dilution of 1:1600 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



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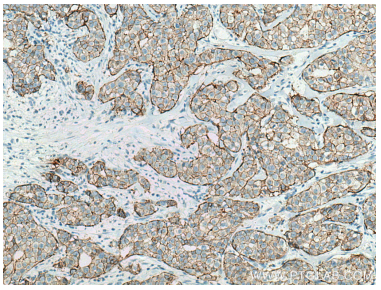

Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60311-1-Ig (HER2/ErbB2 antibody) at dilution of 1:40000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).