

For Research Use Only

# HER2/ErbB2 Monoclonal antibody

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



## Basic Information

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

## Applications

<b>Tested Applications:</b> IHC, IF-P, ELISA	<b>Positive Controls:</b> IHC : human breast cancer tissue, IF-P : human breast cancer tissue,
<b>Cited Applications:</b> IHC, IF	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human	

**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

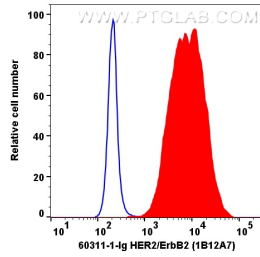
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

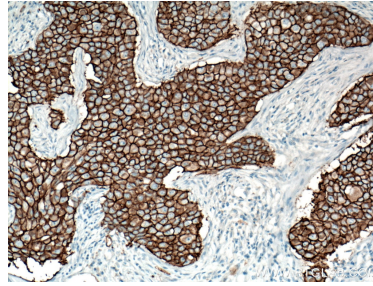
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

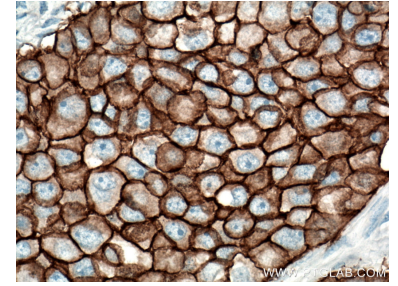
## Selected Validation Data



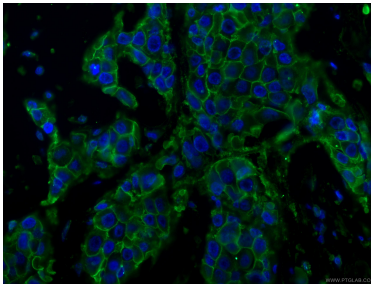
1x10<sup>6</sup> SK-BR-3 cells were surface stained with 0.2 µg HER2/ErbB2 Monoclonal antibody (60311-1-Ig, Clone: 1B12A7) and CoraLite® Plus 647-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO.RGAM005). Mouse IgG2b isotype control (66360-3-Ig, Clone: 11B8C4) was parallel stained as control.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



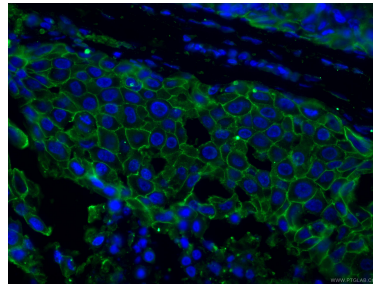
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60311-1-Ig (HER2/ErbB2 antibody) at dilution of 1:1600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



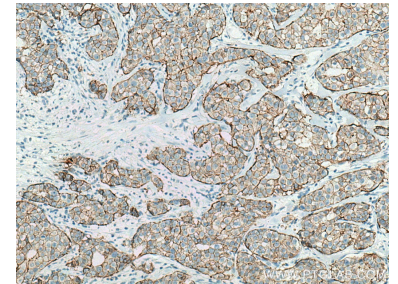
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60311-1-Ig (HER2/ErbB2 antibody) at dilution of 1:1600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).