

For Research Use Only

# HER2/ErbB2 Polyclonal antibody

Catalog Number: 18299-1-AP

Featured Product

57 Publications



## Basic Information

### Catalog Number:

18299-1-AP

### Size:

150ul, Concentration: 700 µg/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

BC167147

### GeneID (NCBI):

2064

### Full Name:

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

### Calculated MW:

138 kDa

### Observed MW:

185 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:12000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:300-1:1200

IF 1:50-1:500

## Applications

### Tested Applications:

FC, IF, IHC, IP, WB, ELISA

### Cited Applications:

FC, IF, IHC, WB

### Species Specificity:

human, mouse

### Cited Species:

human, rat, mouse

### Positive Controls:

WB : 4T1 cells, SGC-7901 cells, MCF-7 cells, HeLa cells

IP : SGC-7901 cells,

IHC : human breast cancer tissue,

IF : human breast cancer tissue,

**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, also known as ErbB2 and Neu, is a 185-kDa transmembrane glycoprotein that is a member of the epidermal growth factor (EGF) receptor family of receptor tyrosine kinases. It has no ligand-binding domain of its own 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. This antibody raised against a synthesized peptide corresponding to 1237-1255aa of human HER2 recognizes the 185-kDa full-length glycosylated form and other lower molecular-mass forms of HER2, including the truncated form.

## Notable Publications

Author	Pubmed ID	Journal	Application
Samusi Adediran	36230550	Cancers (Basel)	WB
Zhirui Zhang	27658586	J Exp Clin Cancer Res	WB
Yangcenzi Xie	36069700	Anal Chem	WB,IF

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

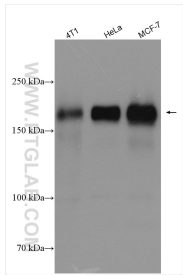
For technical support and original validation data for this product please contact:

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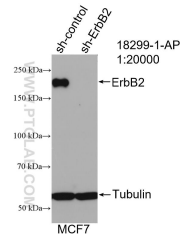
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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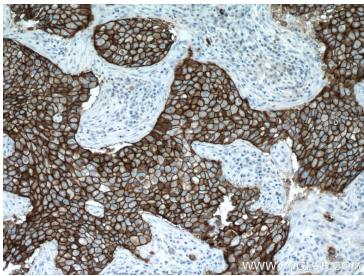
Selected Validation Data



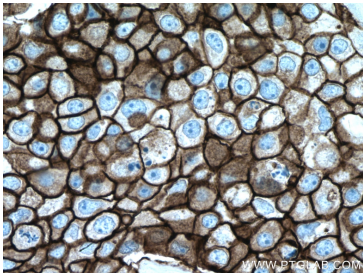
Various lysates were subjected to SDS PAGE followed by western blot with 18299-1-AP (HER2/ErbB2 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



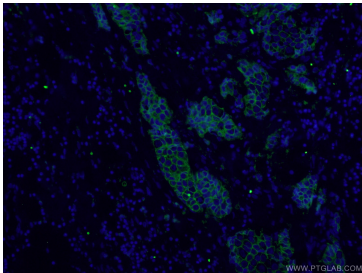
WB result of HER2/ErbB2 antibody (18299-1-AP; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HER2/ErbB2 transfected MCF-7 cells.



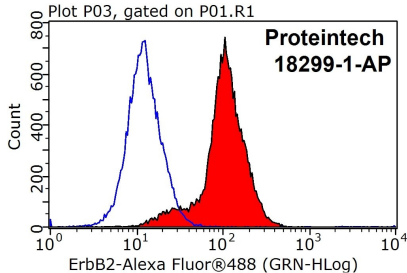
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 18299-1-AP (HER2/ErbB2 antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



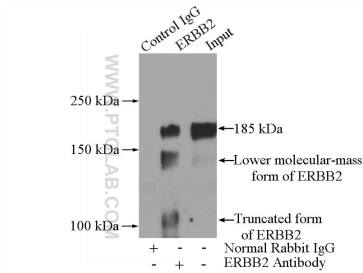
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 18299-1-AP (HER2/ErbB2 antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using 18299-1-AP (HER2/ErbB2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10<sup>6</sup> MCF-7 cells were stained with 0.2ug HER2/ErbB2 antibody (18299-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.



IP Result of anti-HER2/ErbB2 (IP:18299-1-AP, 5ug; Detection:18299-1-AP 1:500) with SGC-7901 cells lysate 2400ug.