For Research Use Only

HER2/ErbB2 Polyclonal antibody

Catalog Number:18299-1-AP Featured Product 84 Publications

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Basic Information

Catalog Number:
18299-1-AP

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC167147

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:
138 kDa

Observed MW:
185 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:2000-1:12000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:300-1:1200
IF-Fro: 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF-Fro, IP, ELISA

Cited Applications:
WB, IHC, IF, IP

Species Specificity:
human, mouse

Cited Species:
human, mouse, rat, zebrafish

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:

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

IP : SGC-7901 cells,

IHC : human breast cancer tissue, human ovary cancer tissue

IF-Fro : mouse breast cancer,

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

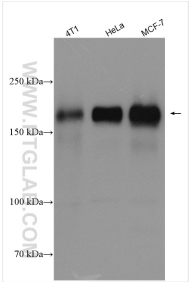
Author	Pubmed ID	Journal	Application
Samusi Adediran	36230550	Cancers (Basel)	WB
Zhirui Zhang	27658586	J Exp Clin Cancer Res	WB
Yangcenzi Xie	36069700	Anal Chem	WB,IF

Storage

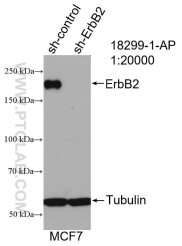
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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

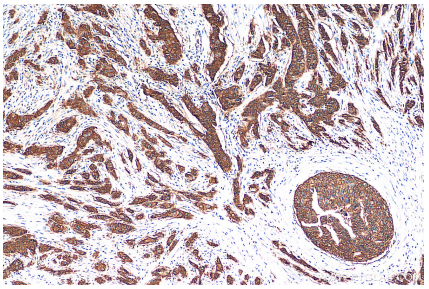
Selected Validation Data



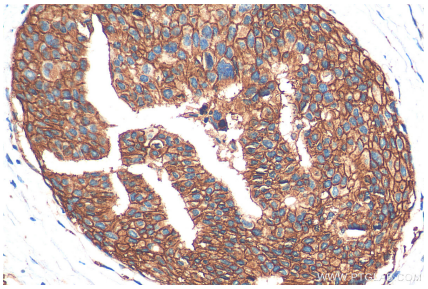
Various lysates were subjected to SDS PAGE followed by western blot with 18299-1-AP (HER2/ErbB2 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



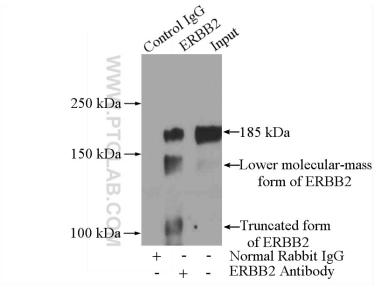
WB result of HER2/ErbB2 antibody (18299-1-AP; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HER2/ErbB2 transfected MCF-7 cells.



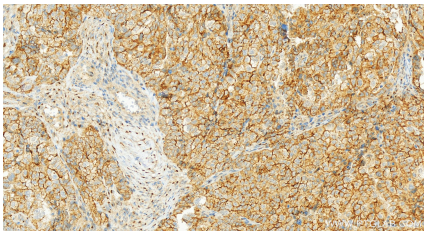
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 18299-1-AP (HER2/ErbB2 antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



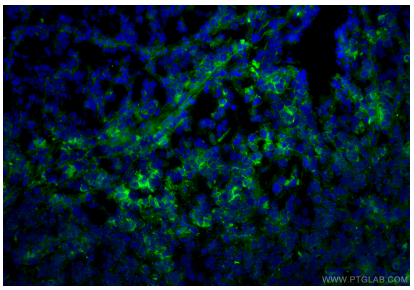
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 18299-1-AP (HER2/ErbB2 antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 18299-1-AP (HER2/ErbB2 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse breast cancer using HER2/ErbB2 antibody (18299-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).