

For Research Use Only

HER2/ErbB2 Polyclonal antibody

Catalog Number: 18299-1-AP **38 Publications**



Basic Information

Catalog Number: 18299-1-AP	GenBank Accession Number: BC167147	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 700 µg/ml by Nanodrop and 353 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 2064	Recommended Dilutions: WB 1:2000-1:12000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
Source: Rabbit	Full Name: v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian)	IHC 1:300-1:1200 IF 1:50-1:500
Isotype: IgG	Calculated MW: 138 kDa	
	Observed MW: 185 kDa	

Applications

Tested Applications: FC, IF, IHC, IP, WB, ELISA	Positive Controls: WB : 4T1 cells, SGC-7901 cells, HeLa cells, MCF-7 cells
Cited Applications: ColP, FC, IF, IHC, WB	IP : SGC-7901 cells,
Species Specificity: human, mouse	IHC : human breast cancer tissue,
Cited Species: human, mouse, rat	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
Zhirui Zhang	27658586	J Exp Clin Cancer Res	WB
Yilong Li	28875433	Invest New Drugs	WB
Daisong Wang	31481760	Cell Res	IHC

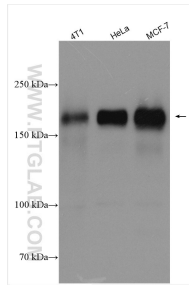
Storage

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

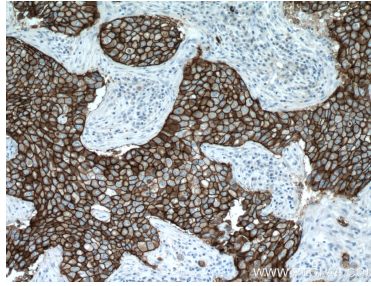
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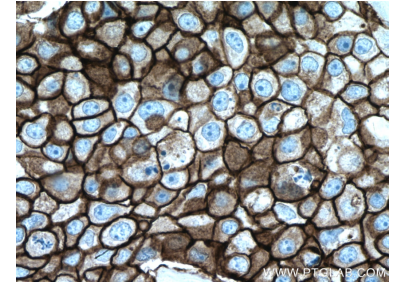
Selected Validation Data



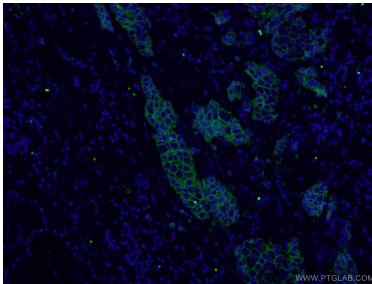
Various lysates were subjected to SDS PAGE followed by western blot with 18299-1-AP (HER2/ErbB2 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



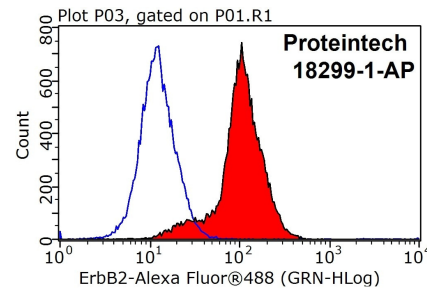
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 18299-1-AP (HER2/ErbB2 antibody) at dilution of 1:600 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



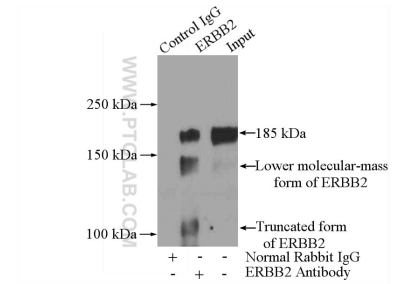
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 18299-1-AP (HER2/ErbB2 antibody) at dilution of 1:600 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



1×10^6 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.