

## HER2 Polyclonal Antibody

Catalog No :	YT3051
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	HER2
Fields :	>>EGFR tyrosine kinase inhibitor resistance;>>Endocrine resistance;>>Platinum drug resistance;>>MAPK signaling pathway;>>ErbB signaling pathway;>>Calcium signaling pathway;>>HIF-1 signaling pathway;>>PI3K-Akt signaling pathway;>>Focal adhesion;>>Adherens junction;>>Tight junction;>>Pathways in cancer;>>Proteoglycans in cancer;>>MicroRNAs in cancer;>>Pancreatic cancer;>>Endometrial cancer;>>Prostate cancer;>>Bladder cancer;>>Non-small cell lung cancer;>>Breast cancer;>>Gastric cancer;>>Central carbon metabolism in cancer
Gene Name :	ERBB2
Protein Name :	Receptor tyrosine-protein kinase erbB-2
Human Gene Id :	2064
Human Swiss Prot	P04626
No : Mouse Gene Id :	13866
Mouse Swiss Prot	P70424
No : Rat Swiss Prot No :	P06494
Immunogen :	The antiserum was produced against synthesized peptide derived from human HER2. AA range:1206-1255
Specificity :	Neu Polyclonal Antibody detects endogenous levels of Neu protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.



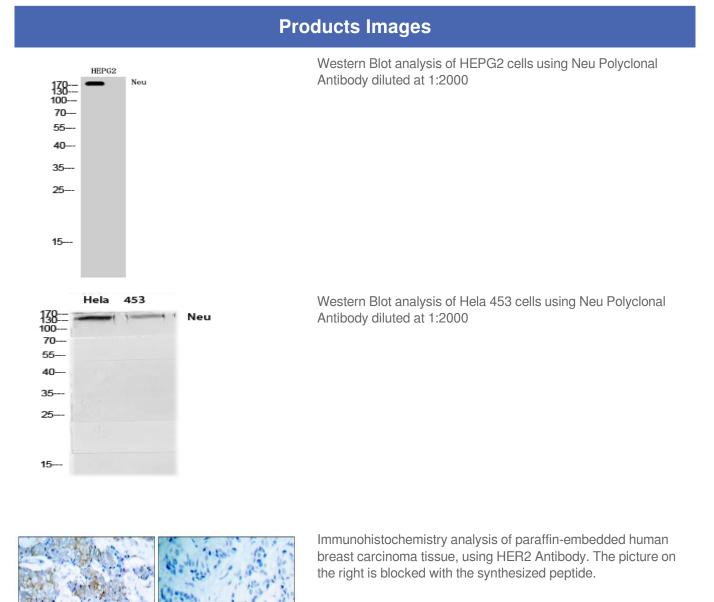
Best Tools for immunolog	jy Research
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:5000 IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-
	chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Clavara Clability	15% to $25%$ $C/1$ year (Do not lower than $25%$ C)
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Dand	
Observed Band :	180kD
Coll Pathway	ErbB UEB:Calcium:Eccal adhesion:Adherons Junction:Pathways in
Cell Pathway :	ErbB_HER;Calcium;Focal adhesion;Adherens_Junction;Pathways in cancer;Pancreatic cancer;Endometrial cancer;Prostate cancer;Bladder
	cancer;Non-small cell lung cancer;
Background :	This gene encodes a member of the epidermal growth factor (EGF) receptor
	family of receptor tyrosine kinases. This protein 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. Allelic variations at amino acid
	positions 654 and 655 of isoform a (positions 624 and 625 of isoform b) have
	been reported, with the most common allele, Ile654/Ile655, shown here. Amplification and/or overexpression of this gene has been reported in numerous
	cancers, including breast and ovarian tumors. Alternative splicing results in
	several additional transcript variants, some encoding d
Function :	catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine
	phosphate.,disease:Defects in ERBB2 are associated with familial glioma of brain
	[MIM:137800]; also called glioblastoma multiforme. Gliomas are central nervous
	system neoplasms derived from glial cells and comprise astrocytomas, glioblastoma multiforme, oligodendrogliomas, and
	ependymomas., disease: Defects in ERBB2 are associated with gastric cancer
	[MIM:137215]; also known as hereditary familial diffuse gastric cancer
	(HDGC).,disease:Defects in ERBB2 are associated with lung cancer
	[MIM:211980]; also called adenocarcinoma of lung., disease: Defects in ERBB2
	are associated with ovarian cancer [MIM:167000]. Ovarian cancer is the leading cause of death from gynecologic malignancy. It is characterized by advanced
	presentation with loco-regional dissemination in the peritoneal cavity and the rare
	incidence of viscera
Subcellular	[Isoform 1]: Cell membrane ; Single-pass type I membrane protein. Early
Location :	endosome . Cytoplasm, perinuclear region. Nucleus. Translocation to the nucleus requires endocytosis, probably endosomal sorting and is mediated by importin
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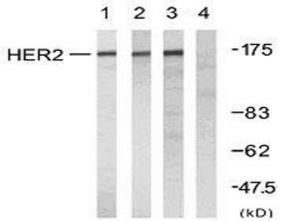
beta-1/KPNB1. Also detected in VPS35-positive endosome-to-TGN retrograde vesicles (PubMed:31138794). .; [Isoform 2]: Cytoplasm. Nucleus.; [Isoform 3]: Cytoplasm. Nucleus.

## **Expression**:

Expressed in a variety of tumor tissues including primary breast tumors and tumors from small bowel, esophagus, kidney and mouth.







Western blot analysis of lysates from A2780 cells, using HER2 Antibody. The lane on the right is blocked with the synthesized peptide.