

For Research Use Only

# Phospho-HER2/ErbB2 (Tyr877) Recombinant monoclonal antibody

Catalog Number: 82762-11-RR



## Basic Information

Catalog Number:	82762-11-RR	GenBank Accession Number:	BC156755	Purification Method:	Protein A purification
Size:	100ul, Concentration: 1000 µg/ml by Nanodrop;	GenID (NCBI):	2064	CloneNo.:	250539F5
Source:	Rabbit	UNIPROT ID:	P04626	Recommended Dilutions:	WB: 1:1000-1:4000 IF/ICC: 1:500-1:2000 FC (Intra): 0.25 ug per 10 <sup>6</sup> cells in a 100 µl suspension
Isotype:	IgG	Full Name:	v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian)		
		Calculated MW:	1255 aa, 138 kDa		
		Observed MW:	185 kDa		

## Applications

Tested Applications:	Positive Controls:
WB, IF/ICC, FC (Intra), ELISA	WB: EGF treated A431 cells,
Species Specificity:	IF/ICC: EGF treated A431 cells, FC (Intra): EGF treated A431 cells,

## 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. Phospho-HER2/ErbB2 (Tyr877) refers to the phosphorylated form of the human epidermal growth-factor receptor 2 (HER2, ErbB2) at tyrosine 877 within its kinase domain. This phosphorylation event is catalyzed in trans by dimerization-activated HER2 itself or by Src-family kinases (SFKs) upon receptor clustering, and serves as a critical activation switch for downstream signaling cascades. ( PMID: 34107301 )

## Storage

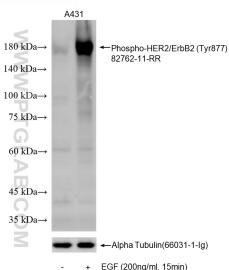
Storage:  
Store at -20°C. Stable for one year after shipment.  
Storage Buffer:  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

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

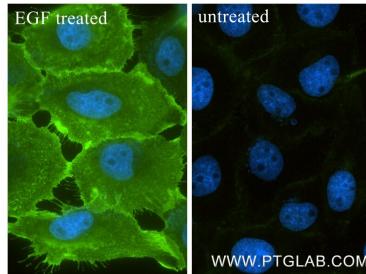
For technical support and original validation data for this product please contact:  
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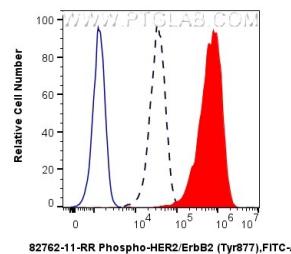
## Selected Validation Data



Non-treated A431 cells and EGF (HZ-1326) treated A431 cells were subjected to SDS PAGE followed by western blot with 82762-11-RR (Phospho-HER2/ErbB2 (Tyr877) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Alpha Tubulin (66031-1-Ig) antibody as a loading control.



Immunofluorescent analysis of (4% PFA) fixed EGF treated A431 cells using Phospho-HER2/ErbB2 (Tyr877) antibody (82762-11-RR, Clone: 250539F5) at dilution of 1:1000 and Coralite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



1X10<sup>6</sup> A431 cells untreated (dashed lines) or treated with EGF which intracellularly stained with 0.25 ug Phospho-HER2/ErbB2 (Tyr877) Recombinant monoclonal antibody (82762-11-RR, Clone:250539F5) and Coralite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with Flow Cytometry Phosphorylated Protein