

For Research Use Only

Phospho-HER2/ErbB2 (Tyr877) Recombinant monoclonal antibody

Catalog Number: 82762-11-RR



Basic Information

Catalog Number:

82762-11-RR

Size:

100ul, Concentration: 1000 µg/ml by
Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC156755

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:

1255 aa, 138 kDa

Observed MW:

185 kDa

Purification Method:

Protein A purification

CloneNo.:

250539F5

Recommended Dilutions:

WB: 1:1000-1:4000

IF/ICC: 1:500-1:2000

FC (Intra): 0.25 ug per 10⁶ cells in a
100 µl suspension

Applications

Tested Applications:

WB, IF/ICC, FC (Intra), ELISA

Species Specificity:

human

Positive Controls:

WB: EGF treated A431 cells,

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

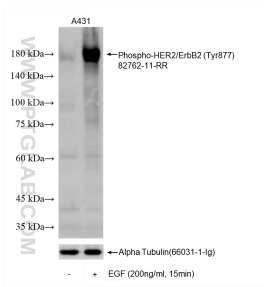
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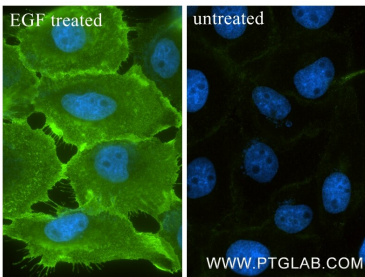
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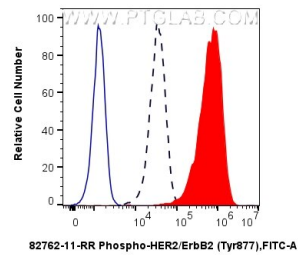
Selected Validation Data



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).



1X10⁶ 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