

For Research Use Only

Phospho-ErbB3/HER3 (Tyr1289) Recombinant antibody, PBS Only

Catalog Number: 85053-6-PBS



Basic Information

Catalog Number:

85053-6-PBS

Size:

100ug, Concentration: 1 mg/ml by
Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC002706

GeneID (NCBI):

2065

UNIPROT ID:

P21860

Full Name:

v-erb-b2 erythroblastic leukemia
viral oncogene homolog 3 (avian)

Calculated MW:

148 kDa

Observed MW:

185 kDa

Purification Method:

Protein A purification

CloneNo.:

250208A12

Applications

Tested Applications:

WB, Indirect ELISA

Species Specificity:

human

Background Information

V-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (ErbB-3, HER3) is a member of the EGF receptor tyrosine kinase family including EGFR (HER1), Neu (ErbB-2, HER2), ErbB-3 (HER3), and ErbB-4 (HER4) that are frequently overexpressed in a variety of carcinomas. Unlike EGFR and HER2, their paralogue HER3 does not possess intrinsic kinase activity due to substitutions at critical positions in the kinase domain. To phosphorylate tyrosine residues in the HER3 cytoplasmic tail to recruit and activate intracellular signaling molecules, it must interact with another functional tyrosine kinase. HER3 exhibits this crosstalk preferentially with HER2 and EGFR, with which it can form heterodimers. Ligand-induced hetero-dimerization with EGFR or HER2 promotes HER3-tyrosine phosphorylation at 6 positions (1054, 1197, 1222, 1260, 1276, and 1289) in the C-terminal tail capable of recruiting of the SH2-domain-containing p85 activator of phosphatidylinositol-3 kinase (PI3K) and promoting activation of the downstream Akt signaling pathway. (PMID: 35249128)

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS only, pH7.3

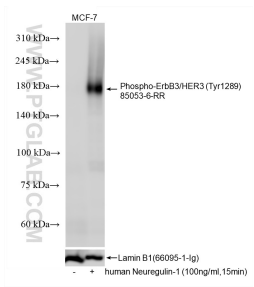
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



Non-treated MCF-7 cells and human Neuregulin-1 treated MCF-7 cells were subjected to SDS PAGE followed by western blot with 85053-6-RR (Phospho-ErbB3/HER3 (Tyr1289) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Lamin B1 (66095-1-Ig) antibody as a loading control. This data was developed using the same antibody clone with 85053-6-PBS in a different storage buffer formulation.