

For Research Use Only

Phospho-ErbB3/HER3 (Tyr1289) Recombinant antibody

Catalog Number: 85053-6-RR



Basic Information

Catalog Number: 85053-6-RR	GenBank Accession Number: BC002706	Purification Method: Protein A purification
Size: 100ul, Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 2065	CloneNo.: 250208A12
Source: Rabbit	UNIPROT ID: P21860	Recommended Dilutions: WB 1:2000-1:10000
Isotype: IgG	Full Name: v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian)	
	Calculated MW: 148 kDa	
	Observed MW: 185 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : MCF-7 cells, human Neuregulin-1 treated MCF-7 cells
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 -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

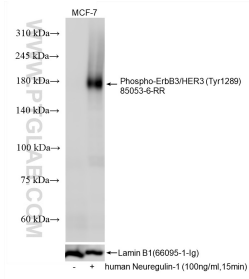
For technical support and original validation data for this product please contact:

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Selected Validation Data



Non-treated 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.