

ErbB-3 (phospho Tyr1222) rabbit pAb**Cat#: orb768026 (Manual)**

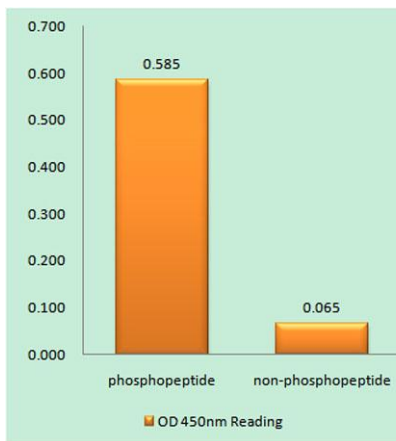
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Product Name	ErbB-3 (phospho Tyr1222) rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse;Rat
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human HER3 around the phosphorylation site of Tyr1222. AA range:1191-1240
Specificity	Phospho-ErbB-3 (Y1222) Polyclonal Antibody detects endogenous levels of ErbB-3 protein only when phosphorylated at Y1222.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Receptor tyrosine-protein kinase erbB-3
Gene Name	ERBB3
Cellular localization	[Isoform 1]: Cell membrane ; Single-pass type I membrane protein.; [Isoform 2]: Secreted.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal

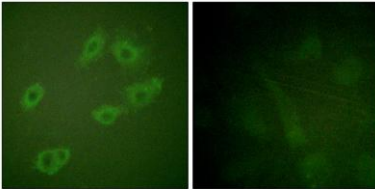
Concentration	1 mg/ml
Observed band	148kD
Human Gene ID	2065
Human Swiss-Prot Number	P21860
Alternative Names	ERBB3; HER3; Receptor tyrosine-protein kinase erbB-3; Proto-oncogene-like protein c-ErbB-3; Tyrosine kinase-type cell surface receptor HER3

Background

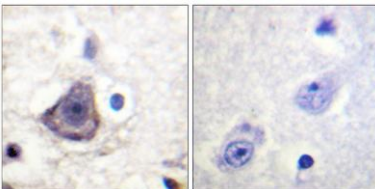
This gene encodes a member of the epidermal growth factor receptor (EGFR) family of receptor tyrosine kinases. This membrane-bound protein has a neuregulin binding domain but not an active kinase domain. It therefore can bind this ligand but not convey the signal into the cell through protein phosphorylation. However, it does form heterodimers with other EGF receptor family members which do have kinase activity. Heterodimerization leads to the activation of pathways which lead to cell proliferation or differentiation. Amplification of this gene and/or overexpression of its protein have been reported in numerous cancers, including prostate, bladder, and breast tumors. Alternate transcriptional splice variants encoding different isoforms have been characterized. One isoform lacks the intermembrane region and is secreted outside the cell. This form acts to modulate the activity of the m



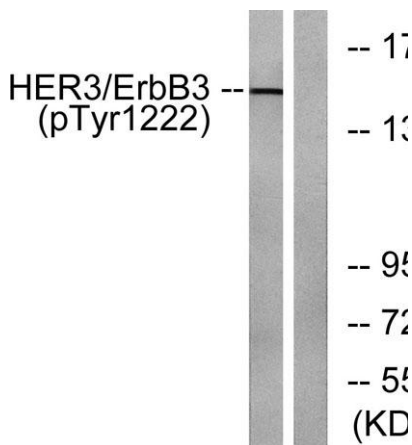
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using HER3 (Phospho-Tyr1222) Antibody



Immunofluorescence analysis of HUVEC cells, using HER3 (Phospho-Tyr1222) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human brain, using HER3 (Phospho-Tyr1222) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HUVEC cells treated with EGF 200ng/ml 30', using HER3 (Phospho-Tyr1222) Antibody. The lane on the right is blocked with the phospho peptide.