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Anti-HER3 (Phospho-Y1222) Antibody

Catalog # AP53346

Product Information

Application	WB, IHC, IF/IC
Primary Accession	P21860
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	148098

Additional Information

Gene ID	2065
Other Names	HER3; Receptor tyrosine-protein kinase erbB-3; Proto-oncogene-like protein c-ErbB-3; Tyrosine kinase-type cell surface receptor HER3
Target/Specificity	KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding Y1222 of human HER3 protein. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

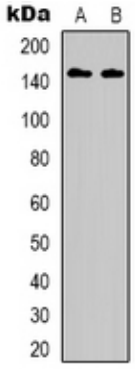
Protein Information

Name	ERBB3
Synonyms	HER3
Function	Tyrosine-protein kinase that plays an essential role as cell surface receptor for neuregulins. Binds to neuregulin-1 (NRG1) and is activated by it; ligand-binding increases phosphorylation on tyrosine residues and promotes its association with the p85 subunit of phosphatidylinositol 3-kinase (PubMed:20682778). May also be activated by CSPG5 (PubMed:15358134). Involved in the regulation of myeloid cell differentiation (PubMed:27416908).
Cellular Location	[Isoform 1]: Cell membrane; Single-pass type I membrane protein
Tissue Location	Epithelial tissues and brain.

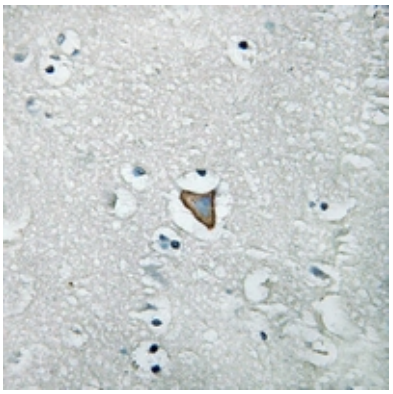
References

Kraus M.H.,et al.Proc. Natl. Acad. Sci. U.S.A. 86:9193-9197(1989).
Plowman G.D.,et al.Proc. Natl. Acad. Sci. U.S.A. 87:4905-4909(1990).
Katoh M.,et al.Biochem. Biophys. Res. Commun. 192:1189-1197(1993).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).

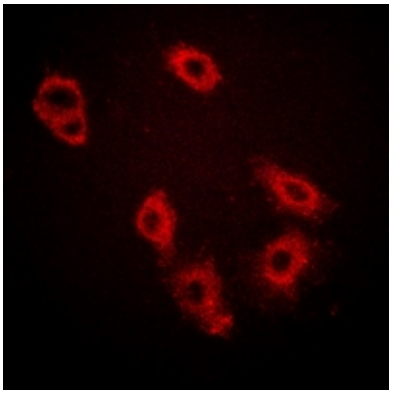
Images



Western blot analysis of HER3 (Phospho-Y1222) expression in A431 EGF-treated (A), MCF7 EGF-treated (B) whole cell lysates. (Predicted band size: 148 kD; Observed band size: 185 kD)



Immunohistochemical analysis of HER3 (Phospho-Y1222) staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of HER3 (Phospho-Y1222) staining in HuvEc cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF594-conjugated secondary antibody (red) in PBS at room temperature in the dark.