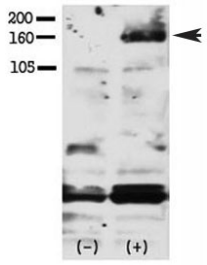
Phospho-HER4 (pY1188) Antibody / Regulatory Site (F48404)

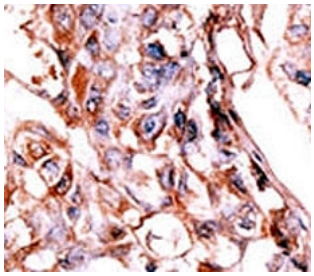
Catalog No.	Formulation	Size
F48404-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F48404-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q15303
Applications	Western blot: 1:1000 IHC (Paraffin): 1:50-1:100
Limitations	This Phospho-HER4 (pY1188) Antibody / Regulatory Site is available for research use only.



Phospho-HER4 (pY1188) Antibody EGF-Stimulated WB. Western blot analysis of human FG pancreatic carcinoma cell lysates treated with or without EGF (50 ng/ml, 15 min) using Phospho-HER4 (pY1188) Antibody detects a band at approximately 160â€“180 kDa in stimulated samples, consistent with the predicted molecular weight of phosphorylated HER4 / ERBB4, while untreated samples show reduced signal, supporting phosphorylation-dependent regulatory signaling at Tyr1188.



Phospho-HER4 (pY1188) Antibody Hepatocarcinoma Tissue IHC. Immunohistochemistry analysis of FFPE human hepatocarcinoma stained with Phospho-HER4 (pY1188) Antibody demonstrates moderate HRP-DAB brown cytoplasmic and membranous staining in tumor cells, consistent with regulated ERBB4 / HER4 phosphorylation, while surrounding tissue exhibits lower background; nuclei are counterstained blue.

Description

Receptor tyrosine-protein kinase erbB-4 (ERBB4), also known as HER4, is a member of the epidermal growth factor receptor family involved in regulation of cell proliferation, differentiation, and survival signaling. Phospho-HER4 (pY1188) antibody detects phosphorylation at tyrosine 1188, a residue located within the intracellular domain that contributes to modulation of receptor signaling activity.

Following ligand binding and receptor dimerization, ERBB4 undergoes phosphorylation at multiple tyrosine residues that collectively regulate signaling output. While sites such as Y1162 are associated with receptor activation, phosphorylation at Y1188 reflects additional regulatory signaling processes that contribute to fine-tuning of pathway engagement and downstream responses.

HER4 signaling is characterized by complex regulatory behavior, including proteolytic processing and context-dependent pathway activation. Phosphorylation at residues such as Y1188 may influence receptor interactions, signaling duration, and cellular responses under different biological conditions.

In cancer and growth factor signaling studies, detection of phosphorylation at Y1188 provides complementary information to activation-associated sites, supporting a more complete understanding of HER4 signaling dynamics. This is particularly relevant in epithelial tumors and ligand-stimulated systems where multiple phosphorylation events occur simultaneously.

Phospho-specific detection using this antibody is typically performed in western blot applications using stimulated cell lysates, where phosphorylation-dependent signal changes reflect modulation of receptor activity.

For analysis of HER4 activation, see our Phospho-ERBB4 (pY1162) antibody.

Application Notes

Titration of the Phospho-HER4 (pY1188) Antibody / Regulatory Site may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This Phospho-HER4 (pY1188) Antibody was produced from rabbits immunized with a KLH conjugated synthetic phospho-peptide corresponding to amino acid residues surrounding pY1188 of human HER4.

Storage

Aliquot the Phospho-HER4 (pY1188) Antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

Phospho-HER4 Tyr1188 antibody, phospho-ERBB4 pY1188 antibody, HER4 pY1188 antibody, ERBB4 regulatory phosphorylation antibody

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