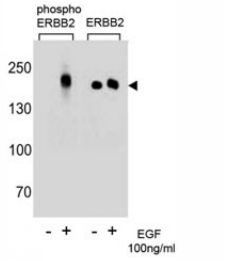
Phospho-ErbB2 (pY1196) Antibody / Signal Maintenance Marker (F48699)

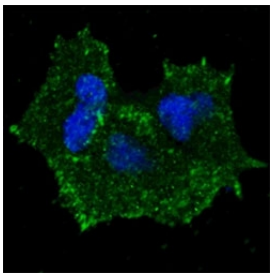
Catalog No.	Formulation	Size
F48699-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F48699-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

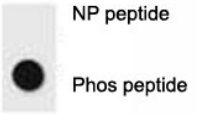
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P04626
Applications	Western blot: 1:4000 Immunofluorescence: 1:100 Dot blot: 1:500
Limitations	This Phospho-ErbB2 (pY1196) Antibody / Signal Maintenance Marker is available for research use only.



Phospho-ErbB2 (pY1196) Antibody EGF-Stimulated WB. Western blot analysis of human A431 cell lysates treated with or without EGF (100 ng/ml) using Phospho-ErbB2 (pY1196) Antibody detects a band at approximately 185 kDa in EGF-stimulated samples, consistent with the predicted molecular weight of phosphorylated ErbB2 / HER2, while untreated samples show reduced signal; parallel detection with a nonphospho ErbB2 antibody confirms total receptor expression across conditions, supporting phosphorylation-dependent signal maintenance at Tyr1196.



Phospho-ErbB2 (pY1196) Antibody MCF-7 IF. Immunofluorescence analysis of PFA-fixed, Triton X-100 permeabilized MCF-7 cells using Phospho-ErbB2 (pY1196) Antibody (green) demonstrates prominent membranous staining outlining the cell periphery with diffuse and punctate cytoplasmic signal, consistent with phosphorylated ErbB2 / HER2 localization during sustained signaling, while nuclei are counterstained blue.



Phospho-ErbB2 (pY1196) Antibody MCF-7 IF. Immunofluorescence analysis of PFA-fixed, Triton X-100 permeabilized MCF-7 cells using Phospho-ErbB2 (pY1196) Antibody (green) demonstrates prominent membranous staining outlining the cell periphery with diffuse and punctate cytoplasmic signal, consistent with phosphorylated ErbB2 / HER2 localization during sustained signaling, while nuclei are counterstained blue.

Description

ErbB2 receptor tyrosine kinase 2 (ERBB2), also known as HER2, is a transmembrane receptor that regulates cell proliferation, survival, and differentiation through activation of intracellular signaling pathways. Phospho-ErbB2 (pY1196) antibody, also referred to as phospho-HER2 antibody and phospho-ERBB2 antibody in the literature, detects phosphorylation at tyrosine 1196, a residue located within the intracellular domain of HER2 that is associated with sustained signaling activity.

Phosphorylation of HER2 at multiple intracellular residues creates a coordinated signaling network that governs receptor activation and downstream pathway engagement. Y1196 is positioned within this network and contributes to maintenance of signaling following initial receptor activation. While early phosphorylation sites initiate pathway engagement, residues such as Y1196 reflect continued signaling activity and support persistence of downstream responses.

HER2 signaling plays a central role in tumor biology, particularly in cancers characterized by ERBB2 amplification such as breast carcinoma. In these contexts, sustained signaling is critical for maintaining tumor cell proliferation and survival. Phosphorylation at Y1196 provides insight into ongoing receptor activity and supports evaluation of signaling persistence rather than initial activation alone.

Y1196 functions within a broader phosphorylation network that includes residues such as Y1112, Y1139, Y1221, Y1222, and Y1248. Together, these sites regulate progression of HER2 signaling from initiation through propagation to sustained activity. Analysis of phosphorylation at Y1196 complements detection of these other residues and contributes to a more complete understanding of HER2 signaling dynamics.

Phospho-specific detection of ERBB2 at Y1196 enables investigation of sustained receptor signaling and pathway maintenance. This supports studies focused on prolonged signaling, cellular adaptation, and response to therapeutic intervention.

For detection of activated HER2 phosphorylation, see our HER2 phospho antibody (pY1248).

Application Notes

Titration of the Phospho-ErbB2 (pY1196) Antibody / Signal Maintenance Marker may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This p-ERBB2 antibody was produced from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding pY1196 of human ERBB2.

Storage

Aliquot the p-ERBB2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

Phospho-ErbB2 (pY1196) antibody, phospho-HER2 Tyr1196 antibody, ERBB2 pY1196 antibody, HER2 signaling maintenance antibody

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