

## HER2 / ErbB2 (Phospho-Thr 686) Antibody

Catalog No: #13328

Package Size: #13328-1 50ul #13328-2 100ul

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## Description

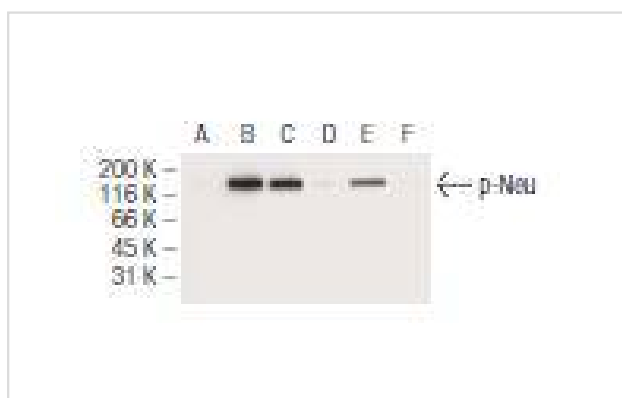
Product Name	HER2 / ErbB2 (Phospho-Thr 686) Antibody
Host Species	Mouse
Clone No.	4G3
Purification	ProA affinity purified
Applications	WB,IP
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Amino acid residues surrounding Threonine 686 of Neu of human origin.
Accession No.	Swiss-Prot#:P04626
Uniprot	P04626
GeneID	2064;
Calculated MW	185kDa
Concentration	2 mg/mL
Formulation	PBS with < 0.1% sodium azide and 0.1% gelatin.
Storage	Store at +4°C.

## Application Details

WB: 1:100-1:1,000

IP: 1-2 &amp;mu;g per 100-500 &amp;mu;g of total protein(1 ml of cell lysate)

## Images



Western blot analysis of Neu phosphorylation in serum starved A431 (A), and serum starved A431 treated for 15 minutes with PMA (B), LPA (C), Ceramide (D), Bradykinin (E) and Bombesin (F) whole cell lysates.

## Background

Neu (ErbB-2 erythroblastic leukemia viral oncogene homolog 2, HER-2, NGL, TKR1, c-erb B2) oncogene was originally cloned from a rat neuroglioblastoma. Human Neu is referred to as HER-2 since the protein structure resembles human epidermal growth factor receptor (HER). ErbB-2 refers to a high level of similarity to ErbB (avian erythroblastosis oncogene B), later found to code for EGFR (HER). Tyr 1248-phosphorylated Neu localizes with Mucin 4/sialomucin complex at the apical surfaces of ductal and alveolar cells in rodent lactating gland. Phosphorylation of Neu at Tyr

1139 promotes association of GRB2 and GRB7 through an Src homology 2 (SH2) domain-dependent interaction and contributes to the etiology of certain breast, gastric and esophageal cancers and testicular germ cell tumors. Neu phosphorylation on Tyr 1221 and Tyr 1248 promotes association of Shc (SH2 domain-containing transforming protein 1) through an SH2 domain. Neu phosphorylation at Tyr 1196 and Tyr 1248 promotes association of Shc through a PTB (phosphotyrosine binding) domain. SH2 and PTB domains recognize tyrosine phosphorylated proteins in a sequence-specific fashion and transduce extracellular signals via subcellular targeting, directing assembly of complexes and modulating enzymatic activity.

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Note: This product is for in vitro research use only