Anti-c-erbB2 (RABBIT) Monoclonal Antibody - 900-C01-B37

Code: 900-C01-B37 **Size:** 100 µL

Product Description: Anti-c-erbB2 (RABBIT) Monoclonal Antibody - 900-C01-B37

PhysicalState: Liquid (sterile filtered)

Label	Unconjugated
Host	Rabbit
Gene Name	ERBB2
Species Reactivity	human
Buffer	See application note.
Stabilizer	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Preservative	0.1% (w/v) Sodium Azide
Storage Condition	Store at 2-8°C. Do not freeze. The user must validate any other storage conditions. When properly stored, the reagent is stable to the date indicated on the label. Do not use the reagent beyond the expiration date.
Synonyms	rabbit anti-c-erbB2 Antibody, Receptor tyrosine-protein kinase erbB-2, p185erbB2, C-erbB-2, NEU proto-oncogene, tyrosine kinase-type cell surface receptor HER2, MLN 19, CD340
Application Note	erbB2 Antibody monoclonal antibody contains TBS/1% BSA and is suitable for ELISA, immunohistochemistry and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 185 kDa in size corresponding to c-erbB2 protein by western blotting in the appropriate cell lysate or extract. For immunohistochemistry, samples should be formalin fixed and paraffin embedded. Deparaffinize slides using xylene or xylene alternatives and graded alcohols. Staining requires boiling of sections in 10 mM citrate buffer pH 6.0 for 10 min followed by cooling at RT for 20 min. C-erbB2 is found in human breast carcinoma tissue at the cell membrane.
Background	The ERBB2 gene encodes a member of the tyrosine protein kinase superfamily that is an essential component of a neuregulin-receptor complex called c-erbB2 (also known as Receptor tyrosine-protein kinase erbB-2, p185erbB2, C-erbB-2, NEU proto-oncogene, tyrosine kinase-type cell surface receptor HER2, MLN 19 and CD340), although neuregulins do not interact with it alone. GP30 is a potential ligand for this receptor. C-erbB2 is not activated by EGF, TGF-alpha and amphiregulin. Defects in ERBB2 are associated with gastric cancer, familial glioma of brain (glioblastoma multiforme), ovarian cancer and lung cancer (adenocarcinoma of lung). c-erbB2 antibody is ideal for Cancer and Signal Transduction research.
Purity And Specificity	Anti-erbB2 Antibody is clarified tissue culture supernate. The antibody is specific for human c-erbB2 protein. Cross-reactivity with c-erbB2 protein from other sources has not been determined.
ELISA	1:10,000
Western Blot	1:200-1:500
Immunohistochemistry	1:100
Expiration	Expiration date is one (1) year from date of opening.
Immunogen	erbB2 monoclonal antibody was produced by repeated immunizations with a recombinant protein corresponding to amino acid residues encoding the extracellular domain of human c-erbB2 protein. The hybridoma was produced by fusing New Zealand White rabbit splenocytes and myeloma cells using conventional technology.
General Reference	Arteaga,C.L., Johnson,M.D., Todderud,G., Coffey,R.J., Carpenter,G. and Page,D.L. (1991) Elevated content of the tyrosine kinase substrate phospholipase C-gamma 1 in primary human breast carcinomas. Proc. Natl. Acad. Sci. U.S.A. 88 (23), 10435-10439.Rodriguez,O.C., Lai,E.W., Vissapragada,S., Cromelin,C., Avetian,M., Salinas,P., Ramos,H., Kallakury,B., Casimiro,M., Lisanti,M.P., Tanowitz,H.B., Pacak,K., Glazer,R.I., Avantaggiati,M. And Albanese,C. (2009) A reduction in Pten tumor suppressor activity promotes ErbB-2-induced mouse prostate adenocarcinoma formation through the activation of signaling cascades downstream of PDK1. Am. J. Pathol. 174 (6), 2051-2060.Cheang,M.C., Chia,S.K., Voduc,D., Gao,D., Leung,S., Snider,J., Watson,M., Davies,S., Bernard,P.S., Parker,J.S., Perou,C.M., Ellis,M.J. and Nielsen,T.O. (2009) Ki67 index, HER2 status, and prognosis of patients with luminal B breast cancer. J. Natl. Cancer Inst. 101 (10), 736-750.Meng,T.C. and Lin,M.F. (1998) Tyrosine phosphorylation of c-ErbB-2 is regulated by the cellular form of prostatic acid phosphatase in human prostate cancer cells. J. Biol. Chem. 273 (34), 22096-22104.

Related Products

100-401-195	Anti-CREB-1 (p43) (RABBIT) Antibody - 100-401-195
200-301-268	Anti-AKT pS473 (MOUSE) Monoclonal Antibody - 200-301-268

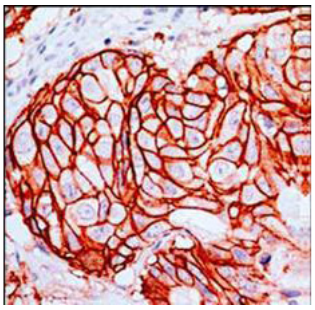
600-401-897	Anti-mTOR (RABBIT) Antibody - 600-401-897
611-1302	Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 611-1302

Related Links

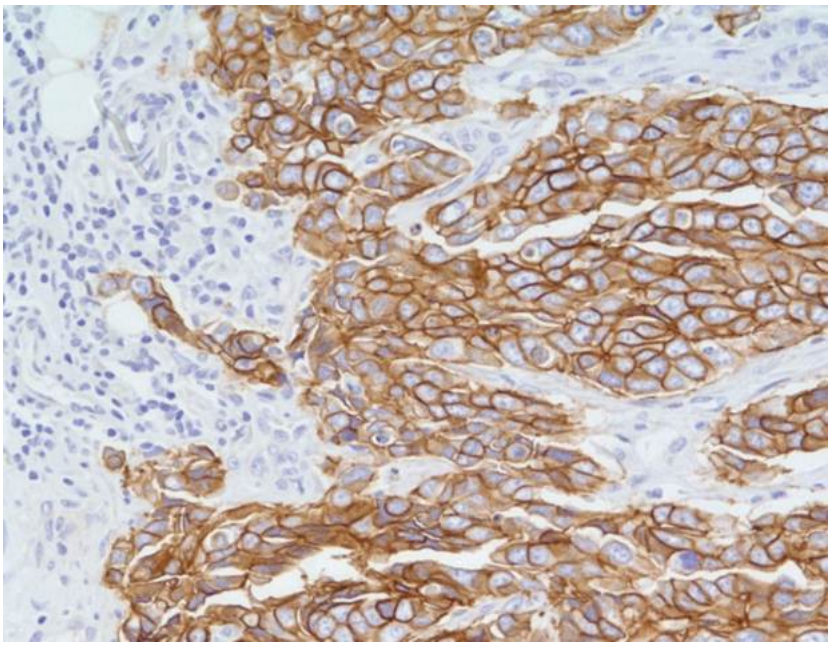
	NCBI - P04626.1
http://www.ncbi.nlm.nih.gov/protein/P04626.1	
UniProtKB - P04626	http://www.uniprot.org/uniprot/P04626
	GeneID - 2064

Images

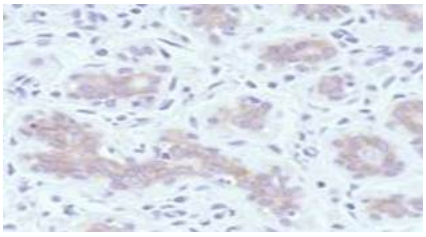
1 Rockland's Anti-c-erbB2 Monoclonal Antibody (Rabbit) was used to detect c-erbB2 in human breast tumor tissue. Tissue was formalin-fixed and paraffin embedded. Staining requires boiling of sections in 10 mM citrate buffer pH 6.0 for 10 min followed by cooling at RT for 20 min. The primary antibody was diluted 1:100 and reacted with tissue for 30 min at RT.



2 Ati-c-erbB-2/HER-2 antibody stains Human Breast Carcinoma.



3 Anti-c-erbB-2/HER-2 antibody stains normal Human Breast tissue.



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