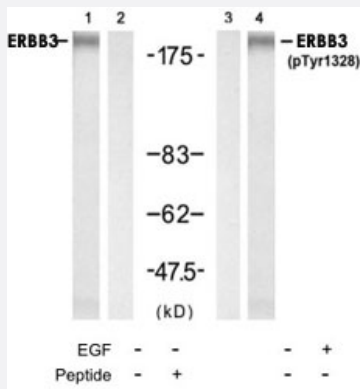


ERBB3 polyclonal antibody

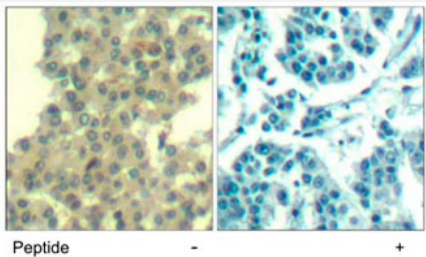
Catalog # PAB12231 Size 100 uL

Applications



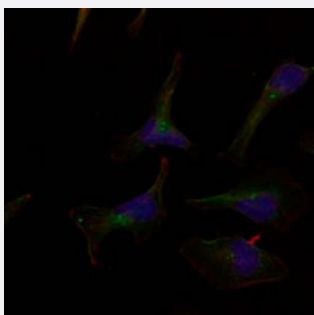
Western Blot (Cell lysate)

Western blot analysis of extracts from HUVEC cell using ERBB3 polyclonal antibody (Cat # PAB12231, Lane 1 and 2) and Phospho-ERBB3 Y1328 polyclonal antibody (Cat # PAB12186, Lane 3 and 4).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using ERBB3 polyclonal antibody (Cat # PAB12231).



Immunofluorescence

Immunofluorescence staining of methanol-fixed HeLa cells using ERBB3 polyclonal antibody (Cat # PAB12231, Red).

Specification

Product Description

Rabbit polyclonal antibody raised against synthetic peptide of ERBB3.

Immunogen	A synthetic peptide (conjugated with KLH) corresponding to residues surrounding Y1328 of human E RBB3.
Sequence	PDYWH
Host	Rabbit
Theoretical MW (kDa)	185
Reactivity	Human, Mouse, Rat
Specificity	Her3/ErbB3 (Ab-1328) Antibody detects endogenous levels of total Her3/ErbB3 protein.
Form	Liquid
Purification	Immunoaffinity purification
Concentration	1 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) Immunofluorescence (1:100-1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (without Mg^{2+} and Ca^{2+}), 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of extracts from HUVEC cell using ERBB3 polyclonal antibody (Cat # PAB12231, Lane 1 and 2) and Phospho-ERBB3 Y1328 polyclonal antibody (Cat # PAB12186, Lane 3 and 4).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using ERBB3 polyclonal antibody (Cat # PAB12231).

- Immunofluorescence

Immunofluorescence staining of methanol-fixed HeLa cells using ERBB3 polyclonal antibody (Cat # PAB12231, Red).

Gene Info — ERBB3

Entrez GeneID	2065
Protein Accession#	P21860
Gene Name	ERBB3
Gene Alias	ErbB-3, HER3, LCCS2, MDA-BF-1, MGC88033, c-erbB-3, c-erbB3, erbB3-S, p180-ErbB3, p45-sErbB3, p85-sErbB3
Gene Description	v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian)
Omim ID	190151 607598
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the epidermal growth factor receptor (EGFR) family of receptor tyrosine kinases. This membrane-bound protein has a neuregulin binding domain but not an active kinase domain. It therefore can bind this ligand but not convey the signal into the cell through protein phosphorylation. However, it does form heterodimers with other EGF receptor family members which do have kinase activity. Heterodimerization leads to the activation of pathways which lead to cell proliferation or differentiation. Amplification of this gene and/or overexpression of its protein have been reported in numerous cancers, including prostate, bladder, and breast tumors. Alternative transcriptional splice variants encoding different isoforms have been characterized. One isoform lacks the intermembrane region and is secreted outside the cell. This form acts to modulate the activity of the membrane-bound form. Additional splice variants have also been reported, but they have not been thoroughly characterized. [provided by RefSeq]
Other Designations	erbB-3 lethal congenital contracture syndrome 2 v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 3

Publication Reference

- [The ErbB2/ErbB3 heterodimer functions as an oncogenic unit: ErbB2 requires ErbB3 to drive breast tumor cell proliferation.](#)

Holbro T, Beerli RR, Maurer F, Koziczak M, Barbas CF 3rd, Hynes NE.

PNAS 2003 Jul; 100(15):8933.

Application: IP, WB-Tr, Human, SKBR3, MB361, BT474 cells

- [Activation of ErbB3-PI3-kinase pathway is correlated with malignant phenotypes of adenocarcinomas.](#)

Kobayashi M, Iwamatsu A, Shinohara-Kanda A, Ihara S, Fukui Y.

Oncogene 2003 Mar; 22(9):1294.

Application: IP, WB-Tr, Human, Monkey, COS-7, NUGC4, MKN7 cells

- [Untangling the ErbB signalling network.](#)

Yarden Y, Sliwkowski MX.

Nat Rev Mol Cell Biol 2001 Feb; 2(2):127.

Pathway

- [Calcium signaling pathway](#)
- [Endocytosis](#)
- [ErbB signaling pathway](#)

Disease

- [Addison Disease](#)
- [Arthritis](#)
- [Autoimmune Diseases](#)
- [Bipolar Disorder](#)
- [Brain Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Celiac Disease](#)
- [Coronary Artery Disease](#)
- [Crohn Disease](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Glioma](#)
- [Hypertension](#)

- [Multiple Sclerosis](#)
- [Ovarian Neoplasms](#)
- [Prostatic Neoplasms](#)
- [Schizophrenia](#)
- [Thyroid Diseases](#)