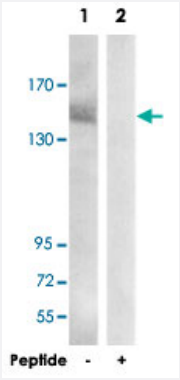
ERBB3 polyclonal antibody

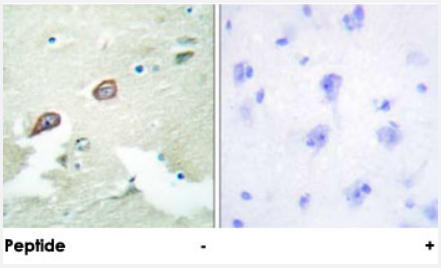
Catalog # PAB18365 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of extracts from 293 cells, using ERBB3 polyclonal antibody (Cat # PAB18365).
Peptide "+" means "peptide blocking".



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

Immunohistochemical analysis of paraffin-embedded human brain tissue using ERBB3 polyclonal antibody (Cat # PAB18365).
Peptide "+" means "peptide blocking".

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of ERBB3.
Immunogen	A synthetic peptide corresponding to residues surrounding Y1222 of human ERBB3.
Host	Rabbit
Reactivity	Human
Specificity	This antibody is specific to ERBB3.
Form	Liquid

Purification	Affinity purification
Concentration	1 mg/mL
Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) Immunofluorescence (1:500-1:1000) ELISA (1:10000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150mM 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 shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

  Western blot analysis of extracts from 293 cells, using ERBB3 polyclonal antibody (Cat # PAB18365).
  Peptide "+" means "peptide blocking".

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

  Immunohistochemical analysis of paraffin-embedded human brain tissue using ERBB3 polyclonal antibody (Cat # PAB18365).
  Peptide "+" means "peptide blocking".

- Immunofluorescence

- Enzyme-linked Immunoabsorbent Assay

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 t yrosine 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 prote in 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 t o 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. Alternat e transcriptional splice variants encoding different isoforms have been characterized. One isofor m 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 onco gene homolog 3

Publication Reference

- Lethal congenital contractural syndrome type 2 (LCCS2) is caused by a mutation in ERBB3 (Her3), a modulator of the phosphatidylinositol-3-kinase/Akt pathway.

  Narkis G, Ofir R, Manor E, Landau D, Elbedour K, Birk OS.

  American Journal of Human Genetics 2007 Sep; 81(3):589.

- Neuroglycan C, a novel member of the neuregulin family.

  Kinugasa Y, Ishiguro H, Tokita Y, Oohira A, Ohmoto H, Higashiyama S.

  Biochemical and Biophysical Research Communications 2004 Sep; 321(4):1045.

  Application: WB, Human, T-47D cells

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