



ErbB-3 Rabbit mAb

Catalog No	YP-rAb-17726
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IF,ELISA
Gene Name	ERBB3,HER3
Protein Name	Receptor tyrosine-protein kinase erbB-3
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000;
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	ERBB3 ; HER3 ; Receptor tyrosine-protein kinase erbB-3 ; Proto-oncogene-like protein c-ErbB-3 ; Tyrosine kinase-type cell surface receptor HER3
Observed Band	185kD
Calculated Molecular Weight	148kD
Cell Pathway	Membrane
Tissue Specificity	Epithelial tissues and brain.
Function	Catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,Disease:Defects in ERBB3 are the cause of lethal congenital contracture syndrome type 2 (LCCS2) [MIM:607598]; also called Israeli Bedouin multiple contracture syndrome type A. LCCS2 is an autosomal recessive neurogenic form of a neonatally lethal arthrogryposis that is associated with atrophy of the anterior horn of the spinal cord. The LCCS2 syndrome is characterized by multiple joint contractures, anterior horn atrophy in the spinal cord, and a unique feature of a markedly distended urinary bladder. The phenotype suggests a spinal cord neuropathic etiology.,Disease:Overexpressed in a subset of human mammary tumors.,Domain:The cytoplasmic part of the receptor may interact with the SH2 or SH3 domains of many signal-transducing proteins.,Function:Binds and is activated by neuregulins and NTAK.,PTM:Ligand-binding increases phosphorylation on tyrosine residues and

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promotes its association with the p85 subunit of phosphatidylinositol 3-kinase.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. EGF receptor subfamily.,similarity:Contains 1 protein kinase domain.,subunit:Heterodimer with each of the other ERBB receptors (Potential). Interacts with CSPG5, PA2G4 and MUC1.,tissue specificity:Epithelial tissues and brain.,

Background

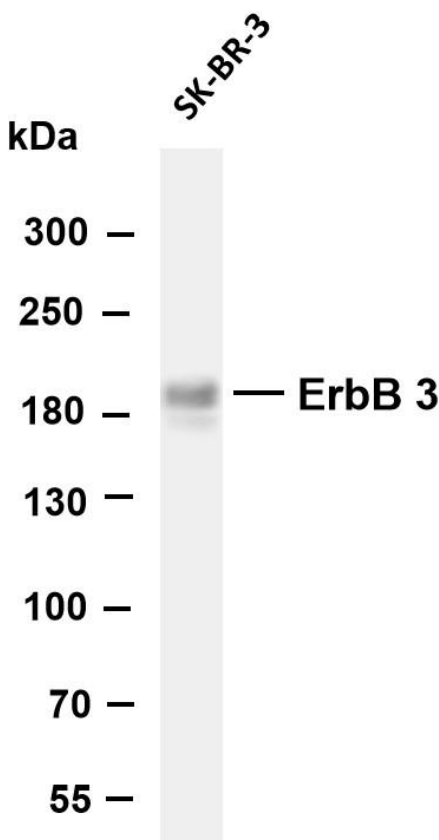
This gene encodes a member of the epidermal growth factor receptor (EGFR) family of receptor tyrosine kinases. This membrane-bound protein has a neuregulin binding domain but not an active kinase domain. It therefore can bind this ligand but not convey the signal into the cell through protein phosphorylation. 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. Alternate 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 m

matters needing attention

Avoid repeated freezing and thawing!

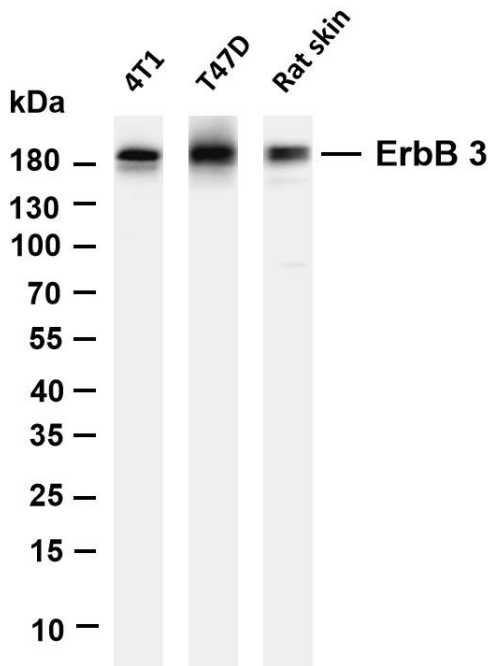
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

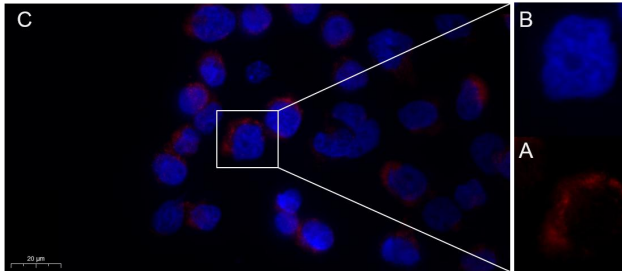


Various whole cell lysates were separated by 4-8% SDS-PAGE, and the membrane was blotted with anti-ErbB-3 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: SK-BR-3 Predicted band size: 148kDa Observed band size: 185kDa





Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-ErbB-3 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: 4T1 Lane 2: T47D Lane 3: Rat skin Predicted band size: 148kDa Observed band size: 185kDa



Immunofluorescence analysis of A431 cell. 1, primary Antibody was diluted at 1:200(4~C overnight). 2, Goat Anti Rabbit IgG (H&L) - AFluor 594 Secondary antibody(catalog No:)

