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Product datasheet for CF803702

ErbB 3 (ERBB3) Mouse Monoclonal Antibody [Clone ID: OTI1C6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1C6
Applications:	IHC, WB
Recommended Dilution:	WB 1:500, IHC 1:150
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human ERBB3 (NP_001973) produced in SF9 cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	146 kDa
Gene Name:	erb-b2 receptor tyrosine kinase 3
Database Link:	NP_001973 Entrez Gene 13867 Mouse Entrez Gene 29496 Rat Entrez Gene 2065 Human P21860

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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 membrane-bound form. Additional splice variants have also been reported, but they have not been thoroughly characterized. [provided by RefSeq, Jul 2008]
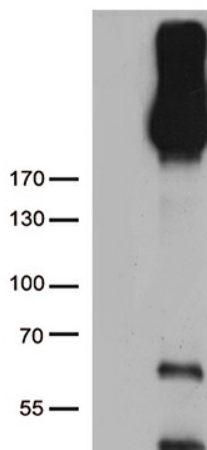
Synonyms: c-erbB-3; c-erbB3; ErbB-3; erbB3-S; HER3; LCCS2; MDA-BF-1; p45-sErbB3; p85-sErbB3; p180-ErbB3
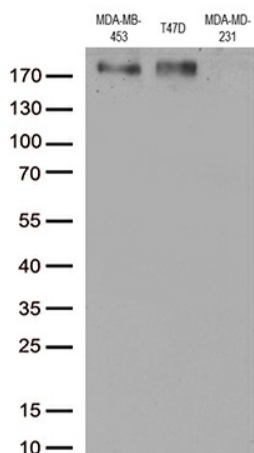
Protein Families: Adult stem cells, Druggable Genome, Protein Kinase, Secreted Protein, Stem cell - Pluripotency, Transmembrane
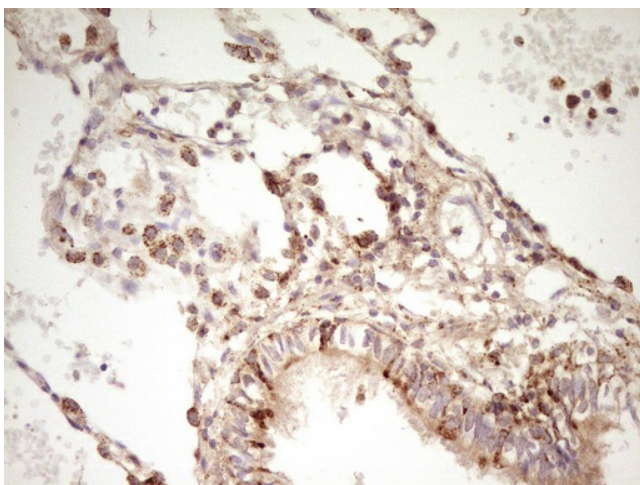
Protein Pathways: Calcium signaling pathway, Endocytosis, ErbB signaling pathway
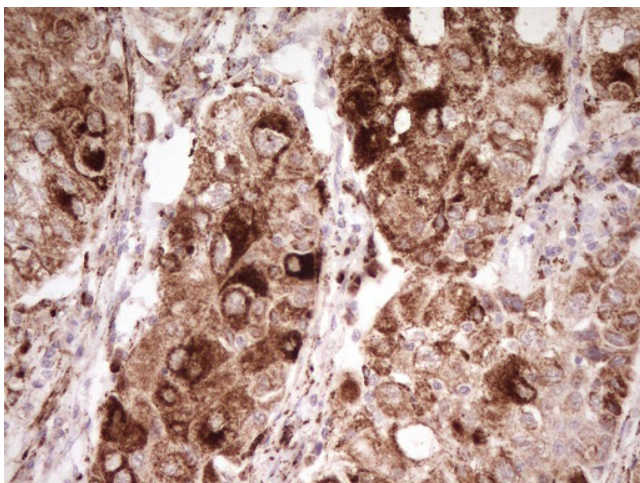
Product images:

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY ERBB3 ([RC209954], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates were separated by SDS-PAGE and immunoblotted with anti-ERBB3. (1:500). Positive lysates [LY400725] (100ug) and [LC400725] (20ug) can be purchased separately from OriGene.
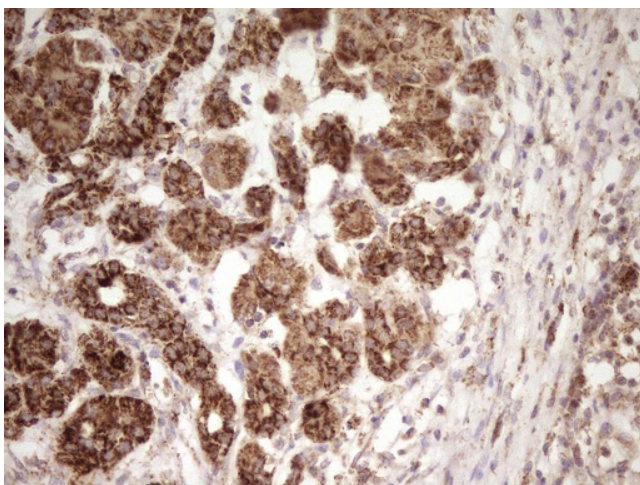
Western blot analysis of extracts from 3 different cell lines by using anti-ERBB3 monoclonal antibody (1:500).

Immunohistochemical staining of paraffin-embedded Human lung tissue within the normal limits using anti-ERBB3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA803702])

Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-ERBB3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA803702])

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Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-ERBB3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min, [TA803702])