

ERBB3 Monoclonal Antibody

Description

Product type	Antibody
Code	BT-MCA3854
Host	Mouse
Isotype	Mouse IgG1
Size	100µL, 50µL
Immunogen	Purified recombinant fragment of ERBB3 (aa1175-1275) expressed in E. Coli.
Mol wt	N/A
Species reactivity	Human
Clonality	Monoclonal
Recommended application	IHC
Concentration	N/A
Full name	N/A
Synonyms	HER3;LCCS2

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

ERBB3: v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian). 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.

Recommended Dilution

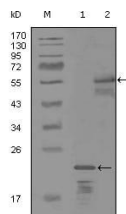
WB: 1:500 - 1:2000

IHC-p: 1:200 - 1:1000

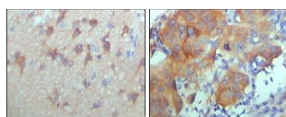
ELISA: 1:10000

Not yet tested in other applications.

Images



Western blot analysis using ERBB3 mouse mAb against truncated Trx-ERBB3 recombinant protein (1) and MBP-ERBB3 (aa1175-1275) recombinant protein (2).



Immunohistochemical analysis of paraffin-embedded human cerebra (left) and breast carcinoma tissue (right), showing cytoplasmic and membrane location with DAB staining using ERBB3 mouse mAb.

Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

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