



ERBB3 Mouse Monoclonal Antibody

E10-20367

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

Catalog Number: E10-20367

Amount: 100µg/100µl

Clone Number: 2F9

Species: Mouse IgG1

MW: 148kDa

Aliases: HER3; c-erbB3

Entrez Gene: 2065

Immunogen: Purified recombinant extracellular fragment of human ERBB3 (aa22-369) fused with hlgGfc tag expressed in HEK293 cells.

Storage: Store at 4 °C for long term storage, store at -20 °C

Formulation: Ascitic fluid containing 0.03% sodium azide.

Species Reactivities: Human

Tested Applications: WB, IF, ELISA. Not yet tested in other applications. Determining optimal working dilutions by titration test.

Application notes: WB. 1/500 - 1/2000. IF. 1/200 - 1/1000. ELISA. Propose dilution 1/10000.

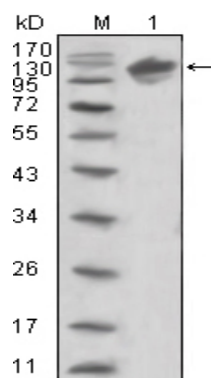


Figure 1. Western blot analysis using ERBB3 mouse mAb against human ERBB3 (aa22-369)-hlgGfc transfected HEK293 cell lysate (1).

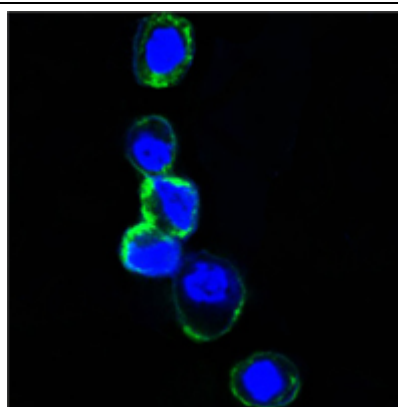


Figure 2. Confocal immunofluorescence analysis of HEK293 cells transfected with extracellular ERBB3 (aa22-369)-hlgGfc using ERBB3 mouse mAb (green). Blue. DRAQ5 fluorescent DNA dye.

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