



ERBB3

Mouse monoclonal Antibody

#54067

**Catalog Number:** 54067**Amount:** 100µg/100µl**Swiss-Prot No. :** P21860**Form of Antibody:** Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol**Storage/Stability:** Store at -20°C/1 year**Immunogen:** Purified recombinant human ERBB3 protein fragments expressed in E.coli**Purification:** affinity-chromatography**Specificity/Sensitivity:** This antibody detects endogenous levels of ERBB3 and does not cross-react with related proteins**Reactivity:** Human**Applications:**

Predicted MW: 148kd      WB:1:500-2000      ICC:1:50-200

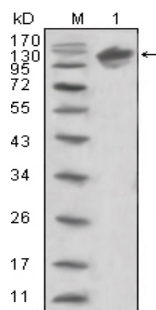


Figure 1: Western blot analysis using ERBB3 mouse mAb against human ERBB3 (aa22-369)-hlgGFc transfected HEK293 cell lysate (1).

**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.