

Product datasheet for **AM06356SU-N**

ErbB 3 (ERBB3) Mouse Monoclonal Antibody [Clone ID: 2F9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2F9
Applications:	IF, WB
Recommended Dilution:	Western Blotting: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant extracellular fragment of human ERBB3 (aa22-369) fused with hlgGfc tag expressed in HEK293 cells.
Specificity:	This antibody reacts to ERBB4.
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% sodium azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	148 kDa
Gene Name:	erb-b2 receptor tyrosine kinase 3
Database Link:	Entrez Gene 2065 Human P21860



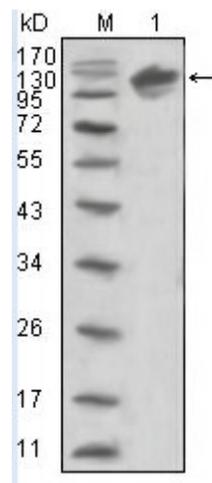
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Background:

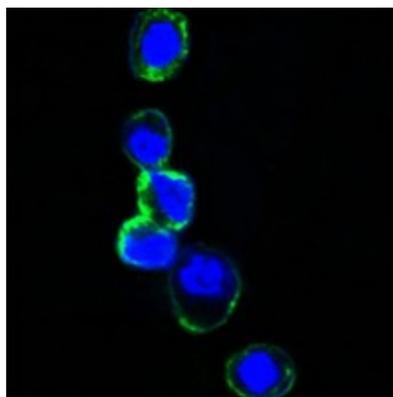
ERBB3, v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian). It is a member of the epidermal growth factor receptor (EGFR) family of receptor tyrosine kinases. This membrane-bound protein has a neuregulin binding domain but not an active kinase domain. It therefore can bind this ligand but 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.

Synonyms:

ERBB-3, c-erbB-3, HER-3

Product images:


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



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