
Product Name: ERBB2 Mouse Monoclonal Antibody**Catalog #: AMM80900**

For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,IHC,ELISA,FC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Purified antibody in PBS with 0.05% sodium azide.
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
Molecular Weight	180kDa

Antigen Information

Gene Name	ERBB2
Alternative Names	NEU; HER2; TKR1; CD340; HER-2
Gene ID	2064.0
SwissProt ID	P04626
Immunogen	Purified recombinant fragment of human ERBB2(aa750-987) expressed in E. Coli.

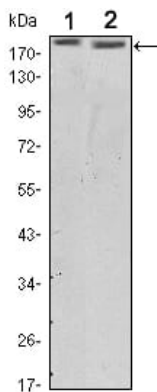
Background

ERBB2: v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian). This gene encodes a member of the epidermal growth factor (EGF) receptor family of receptor tyrosine kinases. This protein has no ligand binding domain of its own and therefore cannot bind growth factors. However, it does bind tightly to other ligand-

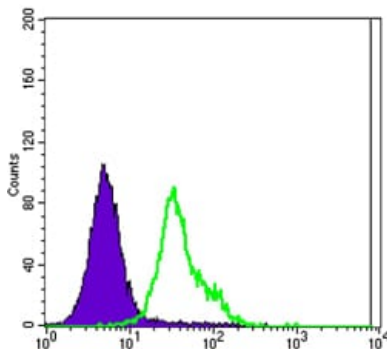
bound EGF receptor family members to form a heterodimer, stabilizing ligand binding and enhancing kinase-mediated activation of downstream signalling pathways, such as those involving mitogen-activated protein kinase and phosphatidylinositol-3 kinase. Allelic variations at amino acid positions 654 and 655 of isoform a (positions 624 and 625 of isoform b) have been reported, with the most common allele, Ile654/Ile655, shown here. Amplification and/or overexpression of this gene has been reported in numerous cancers, including breast and ovarian tumors. Alternative splicing results in several additional transcript variants, some encoding different isoforms and others that have not been fully characterized.

Research Area

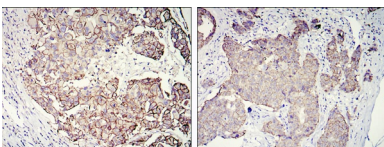
Image Data



Western blot analysis using ERBB2 mouse mAb against SKBR3 (1) and MCF-7 (2) cell lysate.



Flow cytometric analysis of MCF-7 cells using ERBB2 mouse mAb (green) and negative control (purple).



Immunohistochemical analysis of paraffin-embedded human galactophore tumour using ERBB2 mouse mAb with DAB staining