

Product Information

Recombinant Anti-Human ErbB2 Single Domain Antibody

Cat. No.: **MOM-18708**

This product is for research use only and is not intended for diagnostic use.

Antigen Description

Upon ERBB2 activation, the MEMO1-RHOA-DIAPH1 signaling pathway elicits the phosphorylation and thus the inhibition of GSK3B at cell membrane. This prevents the phosphorylation of APC and CLASP2, allowing its association with the cell membrane. In turn, membrane-bound APC allows the localization of MACF1 to the cell membrane, which is required for microtubule capture and stabilization. In the nucleus is involved in transcriptional regulation. Associates with the 5'-TCAAATTC-3' sequence in the PTGS2/COX-2 promoter and activates its transcription. Implicated in transcriptional activation of CDKN1A; the function involves STAT3 and SRC.

Specific Activity

Tested positive against native human antigen.

Target

ErbB2

Immunogen

The details of the immunogen for this antibody are not available.

Source

llama

Species Reactivity

Human

Type

llama VHH

Expression Host

E.coli

Storage

Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C long term. Avoid repeated freeze/thaw cycles.

ANTIGEN GENE INFORMATION

Gene Name

[ERBB2 v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog \(avian\) \[Homo sapiens\]](#)

Official Symbol

ERBB2

Synonyms

ERBB2; v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian); NGL, v erb b2 avian erythroblastic leukemia viral oncogene homolog 2 (neuro/glioblastoma derived oncogene homolog); receptor tyrosine-protein kinase erbB-2; CD340; HER 2; HER2; NEU; herstatin; p185erbB2; proto-oncogene Neu; c-erb B2/neu protein; proto-oncogene c-ErbB-2; metastatic lymph node gene 19 protein; tyrosine kinase-type cell surface receptor HER2; neuroblastoma/glioblastoma derived oncogene homolog; v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2 (neuro/glioblastoma derived oncogene homolog); NGL; TKR1; HER-2; MLN 19; HER-2/neu

Gene ID

[2064](#)

mRNA Refseq

[NM_001005862](#)

Protein Refseq

[NP_001005862](#)

MIM

[164870](#)

UniProt ID

P04626

Chromosome Location

17q11.2-q12

Pathway

Arf6 trafficking events; Calcineurin-regulated NFAT-dependent transcription in lymphocytes; Calcium signaling in the CD4+ TCR pathway; Cytokine Signaling in Immune system; Cytokine-cytokine receptor interaction; Cytokine-cytokine receptor interaction; Downstream signaling in naive CD8+ T cells.

Function

ATP binding; ErbB-3 class receptor binding; Hsp90 protein binding; RNA polymerase I core binding; epidermal growth factor-activated receptor activity; glycoprotein binding; contributes_to growth factor binding; identical protein binding; nucleotide binding; ubiquitin protein ligase binding; protein