Mouse Anti-Human EGFR Monoclonal Antibody

Cat. No. CAB-11472MH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Anti-human EGFR mAb,is derived from hybridization of mouse F0 myeloma cells with spleen cellsfrom BALB/c mice immunized with a recombinant human EGFR protein.
Species	Human
Source	Mouse
Antigen Description	Epidermal growthfactor receptor (EGFR) is a 170 kDa membrane protein first identified as abinding partner of EGF. Also, EGFR phosphorylated itself(autophosphorylation) in response to EGF treatment. The overexpression of EGFRin various epithelial tumors was widely reported and it has beensubstantiated that deregulation of EGFR itself and its signaling pathways animportant role in human cancers.
Immunogen	Recombinant humanEGFR (424-605aa) purified from E. coli.
Isotype	MouseIgG2b heavy chain and κ light chain.
Application	ELISA; WB;ICC
Clone	BU3I9
Description	EGFR isthe cell-surface receptor for members of the epidermal growth factor family(EGF-family) of extracellular protein ligands.

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Concentration	1 mg/ml
Form	Liquid.In Phosphate-Buffered Saline (pH 7.4) with 0.1% Sodium Azide.
Usage	Theantibody has been tested by ELISA, Western blot analysis to assurespecificity and reactivity. Since application varies, however, eachinvestigation should be titrated by the reagent to obtain optimal results.Recommended dilution range for Western blot analysis is 1:250.Immunofluorescence is 1:250. Recommended starting dilution is 1:250.
Storage	Can bestored at +4°C. For long term storage, aliquot and store at -20°C or -70°C.Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	EGFR epidermalgrowth factor receptor [Homo sapiens]
Official Symbol	EGFR
Synonyms	EGFR;epidermal growth factor receptor; ERBB; HER1; mENA; ERBB1; PIG61;proto-oncogene c-ErbB-1; cell growth inhibiting protein 40; cellproliferation-inducing protein 61; receptor tyrosine-protein kinase erbB-1;avian erythroblastic leukemia viral (v-erb-b) oncogene homolog; EC 2.7.10.1;OTTHUMP00000159661; OTTHUMP00000159662; OTTHUMP00000159663;OTTHUMP00000209210; OTTHUMP00000209211; EC 2.7.10; epidermal growth factorreceptor (avian erythroblastic leukemia viral (v-erb-b); erythroblasticleukemia viral (v-erb-b) oncogene homolog; leukemia viral (v-erb-b) oncogenehomolog
Gene ID	1956
mRNA Refseq	NM_005228

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Protein Refseq	NP_005219
MIM	131550
UniProt ID	P00533
Chromosome Location	7p12
Pathway	Adherens junction; Alpha6-Beta4Integrin Signaling Pat; Androgen Receptor Signaling Pathway; Arf6 signalingevents; Axon guidance; Bladder cancer; Calcium signaling pathway;Cytokine-cytokine receptor interaction; Delta-Notch Signaling Pathway;Developmental Biology; Direct p53 effectors; Dorso-ventral axis formation;E-cadherin signaling in keratinocytes; EGF receptor (ErbB1) signalingpathway; EGFR downregulation
Function	ATP binding; MAP/ERK kinase kinaseactivity; actin filament binding; double-stranded DNA binding; enzymebinding; epidermal growth factor-activated receptor activity; identicalprotein binding; contributes to nitric-oxide synthase regulator activity;nucleotide binding; protein binding; protein heterodimerization activity;protein phosphatase binding; protein tyrosine kinase activity; receptoractivity; signal transducer activity

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