

## Mouse Anti-Human EGFR Monoclonal Antibody

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

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Anti-human EGFR mAb, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human EGFR protein.                                                                                                                                                                                                                                                        |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>              | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Antigen Description</b> | Epidermal growth factor receptor (EGFR) is a 170 kDa membrane protein first identified as a binding partner of EGF. Also, EGFR phosphorylates itself (autophosphorylation) in response to EGF treatment. The overexpression of EGFR in various epithelial tumors was widely reported and it has been substantiated that deregulation of EGFR itself and its signaling pathways play an important role in human cancers. |
| <b>Immunogen</b>           | Recombinant human EGFR (424-605aa) purified from E. coli.                                                                                                                                                                                                                                                                                                                                                               |
| <b>Isotype</b>             | Mouse IgG2b heavy chain and $\kappa$ light chain.                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Application</b>         | ELISA; WB; ICC                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Clone</b>               | BU3I9                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>         | EGFR is the cell-surface receptor for members of the epidermal growth factor family (EGF-family) of extracellular protein ligands.                                                                                                                                                                                                                                                                                      |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                      |                                                                                                                                                                                                                                                                                                                                                           |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Concentration</b> | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                   |
| <b>Form</b>          | Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.1% Sodium Azide.                                                                                                                                                                                                                                                                                     |
| <b>Usage</b>         | The antibody has been tested by ELISA, Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation 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. |
| <b>Storage</b>       | Can be stored at +4°C. For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                            |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | EGFR epidermal growth factor receptor [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Official Symbol</b> | EGFR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>        | EGFR; epidermal growth factor receptor; ERBB; HER1; mENA; ERBB1; PIG61; proto-oncogene c-ErbB-1; cell growth inhibiting protein 40; cell proliferation-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 factor receptor (avian erythroblastic leukemia viral (v-erb-b); erythroblastic leukemia viral (v-erb-b) oncogene homolog; leukemia viral (v-erb-b) oncogene homolog |
| <b>Gene ID</b>         | 1956                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>     | NM_005228                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protein Refseq</b>      | NP_005219                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>MIM</b>                 | 131550                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>UniProt ID</b>          | P00533                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Chromosome Location</b> | 7p12                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Pathway</b>             | 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                |
| <b>Function</b>            | 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 |