

# Rabbit Anti-Human Epidermal Growth Factor Receptor Monoclonal Antibody

Cat. No. CAB11528RH Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Rabbit Monoclonal Antibody to Human Epidermal Growth Factor Receptor
<b>Species</b>	Human
<b>Source</b>	Rabbit
<b>Antigen Description</b>	<p>As a member of the epidermal growth factor receptor tyrosine kinases subfamily, EGFR is type I transmembrane glycoprotein that binds a subset of EGF family ligands including EGF, amphiregulin, TGF-<math>\alpha</math>, betacellulin, etc. EGFR plays a crucial role in signaling pathway in the regulation of cell proliferation, survival and differentiation.</p> <p>Binding of a ligand induces EGFR homo- or hetero- dimerization, the subsequent tyrosine autophosphorylation and initiates various downstream pathways (MAPK, PI3K/PKB and STAT). In addition, EGFR signaling also has been shown to exert action on carcinogenesis and disease progression, and thus applications focused on EGFR was proposed as a target for cancer therapy currently.</p>
<b>Specificity</b>	Human EGFR / ErbB / HER1. No cross-reactivity in ELISA with Human ErbB2 / HER2; Human ErbB3 / HER3; Human cell lysate (293 cell line)
<b>Immunogen</b>	Recombinant Human EGFR Protein
<b>Isotype</b>	Rabbit IgG
<b>Clone</b>	A022

 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>Applications</b>	WB; ELISA
<b>Dilution</b>	Western blot: This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Human EGFR in WB. Using a DAB detection system, the detection limit for Human EGFR is approximately 5 ng/lane under non-reducing conditions. Use of this antibody under reducing conditions is not recommended. ELISA: This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect Human EGFR. The detection limit for Human EGFR is approximately 0.00245 ng/well.
<b>Preparation</b>	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant human EGFR
<b>Format</b>	0.2 µm filtered solution in PBS with 5% trehalose
<b>Storage</b>	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70°C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw 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; epidermal growth factor receptor (avian erythroblastic leukemia viral (v erb b) oncogene homolog) , ERBB; ERBB1; erythroblastic leukemia viral (v erb b) oncogene homolog (avian); proto-oncogene c-ErbB-1; cell growth inhibiting protein 40; cell proliferation-inducing protein 61; receptor

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	tyrosine-protein kinase erbB-1; avian erythroblastic leukemia viral (v-erb-b) oncogene homolog; ERBB; HER1; mENA; PIG61;
<b>Gene ID</b>	1956
<b>mRNA Refseq</b>	NM_005228
<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, organism-specific biosystem; Adherens junction, conserved biosystem; Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Arf6 signaling events, organism-specific biosystem; Axon guidance, organism-specific biosystem; Bladder cancer, organism-specific biosystem;
<b>Function</b>	ATP binding; MAPK/ERK kinase kinase activity; actin filament binding; double-stranded DNA binding; enzyme binding; epidermal growth factor-activated receptor activity; epidermal growth factor-activated receptor activity; identical protein binding; contributes_to nitric-oxide synthase regulator activity; nucleotide binding; protein binding; protein heterodimerization activity; protein phosphatase binding; protein tyrosine kinase activity; protein tyrosine kinase activity; protein tyrosine kinase activity; receptor activity; receptor signaling protein tyrosine kinase activity; signal transducer activity; transmembrane receptor protein tyrosine kinase activity; transmembrane receptor protein tyrosine kinase activity; transmembrane signaling

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receptor activity;

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