

Rabbit Anti-Human Epidermal Growth Factor Monoclonal Antibody

Cat. No. CAB11526RH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rabbit Monoclonal Antibody to Human Epidermal Growth Factor
Species	Human
Source	Rabbit
Antigen Description	Human epidermal growth factor (EGF) exerts actions on a wide variety of biological processes, and plays an important role in the regulation of cell growth, proliferation, and differentiation mediated by its high-affinity receptor EGFR on the cell surface. It induces differentiation of specific cells, promotes angiogenesis, and inhibits gastric acid secretion in vivo, while serves as a potent mitogenic actor for a variety of cultured cells of both ectodermal and mesodermal origin. Human EGF was originally isolated from urine based on its inhibitory effect on gastric secretion and named urogastrone accordingly. EGF is the founding member of the EGF-family of proteins which are characterized by the presence of at least one EGF structural unit (a conserved 6 cysteine motif that forms three disulfide bonds). The EGF precursor is believed to exist as a membrane-bound molecule containing 9 EGF units, and is proteolytically cleaved to generate the 53-amino acid peptide hormone.
Specificity	Human Epidermal Growth Factor. No cross-reactivity with human cell lysate (293 cell line) in WB and ELISA.
Immunogen	Recombinant human EGF protein

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Isotype	Rabbit IgG
Clone	A009
Applications	WB; ELISA
Dilution	Western blot: This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect human human EGF in WB. Using a DAB detection system, the detection limit for human EGF is approximately 0.5 ng/lane under non-reducing conditions and 20 ng/lane under reducing conditionsELISA: This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human EGF. The detection limit for human EGF is approximately 0.0049 ng/well
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant human EGF
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	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

Gene Name	EGF epidermal growth factor [Homo sapiens]
Official Symbol	EGF
Synonyms	EGF; epidermal growth factor; epidermal growth factor (beta urogastrone); pro-

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	epidermal growth factor; beta-urogastrone; URG; HOMG4;
Gene ID	1950
mRNA Refseq	NM_001178130
Protein Refseq	NP_001171601
MIM	131530
UniProt ID	P01133
Chromosome Location	4q25
Pathway	Arf6 signaling events, organism-specific biosystem; Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Ceramide signaling pathway, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Delta-Notch Signaling Pathway, organism-specific biosystem;
Function	calcium ion binding; epidermal growth factor receptor binding; growth factor activity; protein binding; transmembrane receptor protein tyrosine kinase activator activity;