

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 conditions ELISA: 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

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| 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; |

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