

## ARG10199 anti-EGF antibody [S-134]

Package: 100 µg  
Store at: -20°C

### Summary

|                     |   |
|---------------------|---|
| Product Description | Mouse Monoclonal antibody [S-134] recognizes Human EGF  |
| Tested Reactivity   | Hu  |
| Tested Application  | ELISA   |
| Specificity         | Does not cross react with other human cytokines tested such as IL-1 $\beta$ , IL-8, MCAF, TGF- $\beta$ and SAA. |
| Host                | Mouse   |
| Clonality           | Monoclonal  |
| Clone               | S-134   |
| Isotype             | IgG1, kappa   |
| Target Name         | EGF   |
| Species             | Human   |
| Immunogen           | Purified recombinant human EGF, 6kDa, 53 amino acid residues  |
| Conjugation         | Un-conjugated   |
| Alternate Names     | Urogastrone; Pro-epidermal growth factor; URG; HOMG4; EGF   |

### Application Instructions

|                  |   |
|------------------|---|
| Application Note | ELISA: The antibody can be used as capture antibody in sandwich ELISA for human EGF detection in combination with EGF tracer (Cat. No.: ARG10200, clone S-146).<br><br>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |
|------------------|---|

### Properties

|                     |  |
|---------------------|--|
| Form                | Liquid   |
| Purification        | Protein G affinity purified  |
| Buffer              | 0.01M PBS (pH 7.2)   |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note                | For laboratory research only, not for drug, diagnostic or other use.   |

### Bioinformation

|                |                                    |
|----------------|------------------------------------|
| Database links | <a href="#">GeneID: 1950 Human</a> |
|----------------|------------------------------------|

|                |  |
|----------------|--|
| Gene Symbol    | EGF  |
| Gene Full Name | epidermal growth factor  |
| Background     | Epidermal growth factor (EGF), along with its receptor EGFR, plays an important role in cell proliferation, differentiation and survival. The binding of EGF to EGFR triggers the intrinsic tyrosine kinase activity of EGFR, activates signalling molecules and stimulates the synthesis of proteins and DNAs. EGF is crucial for maintaining mucosal lining in gastrointestinal duct and for healing of oral and gastro esophageal ulcers. EGF signalling is needed for cancer growth. Monoclonal antibodies that block EGFR have been applied for lung cancer and colon inhibition. |
| Function       | EGF stimulates the growth of various epidermal and epithelial tissues in vivo and in vitro and of some fibroblasts in cell culture. Magnesiotropic hormone that stimulates magnesium reabsorption in the renal distal convoluted tubule via engagement of EGFR and activation of the magnesium channel TRPM6. Can induce neurite outgrowth in motoneurons of the pond snail <i>Lymnaea stagnalis</i> in vitro (PubMed:10964941). [UniProt]   |
| Highlight      | Related Antibody Duos and Panels:<br><a href="#">ARG30073 EGF ELISA Antibody Duo</a><br>Related products:<br><a href="#">EGF antibodies</a> ; <a href="#">EGF ELISA Kits</a> ; <a href="#">EGF Duos / Panels</a> ; <a href="#">Anti-Mouse IgG secondary antibodies</a> ;   |
| Research Area  | Cancer antibody; Cell Biology and Cellular Response antibody; Signaling Transduction antibody  |
| Calculated Mw  | 134 kDa  |
| PTM            | O-glycosylated with core 1-like and core 2-like glycans. It is uncertain if Ser-954 or Thr-955 is O-glycosylated. The modification here shows glycan heterogeneity: HexHexNAc (major) and Hex2HexNAc2 (minor).   |