

ARG10200 anti-EGF antibody [S-146] (HRP)

Package: 100 µl

Store at: -20°C

Summary

Product Description	HRP-conjugated Mouse Monoclonal antibody [S-146] recognizes Human EGF
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	Does not cross react with other human cytokines tested such as IL-1 β , IL-8, MCAF and TGF- β .
Host	Mouse
Clonality	Monoclonal
Clone	S-146
Isotype	IgG1, kappa
Target Name	EGF
Species	Human
Immunogen	Purified recombinant human EGF, 6kDa, 53 amino acid residues
Conjugation	HRP
Alternate Names	Urogastrone; Pro-epidermal growth factor; URG; HOMG4; EGF

Application Instructions

Application Note	ELISA: This HRP conjugated antibody can be used in sandwich ELISA for EGF detection. The matched antibody (capture) is clone S-134 (Anogen Cat No.: ARG10199). * 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) and 50% Glycerol
Stabilizer	50% Glycerol
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. Storage in frost free freezers is not recommended. Keep the antibody in the dark and keep protected from prolonged exposure to light. 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	GeneID: 1950 Human Swiss-port # P01133 Human
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 gastroesophageal 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: ARG30073 EGF ELISA Antibody Duo Related products: EGF antibodies ; EGF ELISA Kits ; EGF Duos / Panels ; Anti-Mouse IgG secondary antibodies ;
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).