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Mouse Anti-Human EGF Monoclonal Antibody Datasheet

Product Name: mAb anti-Human EGF

Clone No.: S-134

Catalogue No.: MO-C40044D

Quantity: 0.5 mg/vial

Description: Mouse monoclonal antibody to human epidermal growth factor (EGF)

Purification: Protein G affinity purified

Product Type: Primary antibody, **capture** antibody in matched antibody pair

Target Protein: Human EGF

Immunogen: Purified recombinant human EGF, 6kDa, 53 amino acid residues

Fusion Myeloma: Sp2/0-Ag14

Specificity: Reactive with natural and recombinant human EGF.

Species Reactivity: Human, others not tested

Cross- Reactivity: Does not cross react with other human cytokines tested such as IL-1 β , IL-8, MCAF, TGF- β and SAA.

Host / Isotype: Mouse, IgG1 Kappa

Formulation: Lyophilized from a solution in pH 7.2 0.01M KH₂PO₄-K₂HPO₄.

Reconstitution: Double distilled water is recommended to adjust the final concentration to 1.00mg/mL.

Storage: Store at -20^oC

Research Area: Growth factor and cytokine

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 cancer treatment.

Applications: **ELISA:** The antibody can be used as capture antibody in sandwich ELISA for human EGF detection in combination with EGF tracer (Cat. No.: MO-C40044T/MO-C40044TB, clone S-146).

Reference: If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.

This product is for **LABORATORY RESEARCH USE** and further manufacture **ONLY**, and cannot be administrated to human and animals for use in diagnostic and therapeutic procedures.

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