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Biotin Conjugated Mouse Anti-Human EGF Monoclonal Antibody Datasheet

Product Name: Biotin conjugated mAb anti-Human EGF

Clone No.: S-146

Catalogue No.: MO-C40044TB

Quantity: 0.1 mL/vial

Description: Biotin-Conjugated Mouse anti-Human EGF Monoclonal Antibody (Tracer)

Purification: Protein G affinity purified

Product Type: **Tracer** antibody in matched antibody pair, Biotin conjugated

Target Protein: Human EGF

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

Fusion Myeloma: Sp2/0-Ag14

Specificity: This monoclonal antibody reacts with natural and recombinant human EGF.

Cross-Reactivity: No cross-reactivity with other human cytokines such as IL-1 β , TGF- β 1, IL-8, MCP-1, and SAA

Species Reactivity: Human, others not tested

Host / Isotype: Mouse, IgG1 Kappa

Storage Buffer Formulation: Liquid. Buffer: 0.01M PBS, pH 7.0 \pm 0.1 in 1% gelatin and 0.1% NaN₃

Storage: Store at -20°C

Research Area: Growth factor and Cytokine

Applications: 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.

Test Data: **ELISA:** This Biotin-conjugated monoclonal antibody can be used as a tracer/detection antibody in a sandwich ELISA for human EGF detection in combination with a capture antibody (Cat. No.: MO-C40044D). Suggested Capture Coating Dose: 0.3 μ g/well; Substrate: TMB. If the suggested conditions are followed approximately 20 pg/mL of EGF in serum/plasma or 15 pg/mL of EGF in cell medium/urine can be detected with an assay range of 0-1000 pg/mL.

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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