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Mouse Anti-Human EGF Monoclonal Antibody Datasheet

Product Name: mAb anti-Human EGF

Clone No.: S-146

Catalogue No.: MO-C40044F

Quantity: 0.5 mg/vial

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

Purification: Protein G affinity purified

Product Type: **Detection** 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. Does not cross react with other human cytokines tested such as IL-1 β , IL-8, MCAF and TGF- β

Species Reactivity: Human, others not tested.

Host / Isotype: Mouse, IgG1 Kappa

Formulation: Lyophilized in 0.01M PBS, pH 7.0

Reconstitution: Double distilled water is recommended to reconstitute the antibody

Storage: Store at -20°C

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.

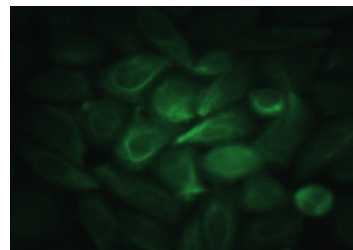
Applications:

ELISA: The antibody can be used in sandwich ELISA for EGF detection. The matched antibody (capture) is clone S-134 (Anogen Cat No.: MO-C40044D).

Western blot: The antibody recognized recombinant EGF on western blot.



Immunocytochemistry (ICC):



Staining of methanol-fixed HeLa cells by Immunocytochemistry: Mouse anti-human EGF(S-146) mAb was used at 1:100 (10 μ g/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.

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