

EGF Antibody

Purified Mouse Monoclonal Antibody Catalog # AO1339a

Specification

EGF Antibody - Product Information

Application Primary Accession Reactivity Host Clonality Isotype Calculated MW **Description** WB, IHC, E <u>P01133</u> Human Mouse Monoclonal IgG1 134kDa KDa

Epidermal growth factor has a profound effect on the differentiation of specific cells in vivo and is a potent mitogenic factor for a variety of cultured cells of both ectodermal and mesodermal origin. The EGF precursor is believed to exist as a membrane-bound molecule which is proteolytically cleaved to generate the 53-amino acid peptide hormone that stimulates cells to divide.

Immunogen Purified recombinant fragment of human EGF expressed in E. Coli.

Formulation Ascitic fluid containing 0.03% sodium azide.

EGF Antibody - Additional Information

Gene ID 1950

Other Names Pro-epidermal growth factor, EGF, Epidermal growth factor, Urogastrone, EGF

Dilution WB~~1/500 - 1/2000 IHC~~1/500 - 1/2000 E~~N/A

Storage Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions EGF Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

EGF Antibody - Protein Information

Name EGF



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 Lymnaea stagnalis in vitro (PubMed:>10964941).

Cellular Location

Membrane; Single-pass type I membrane protein.

Tissue Location Expressed in kidney, salivary gland, cerebrum and prostate.

EGF Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

<u>Western Blot</u>

- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

EGF Antibody - Images



Figure 1: Western blot analysis using EGF mouse mAb against EGF-hlgGFc transfected HEK293 cell lysate.





Figure 2: Immunohistochemical analysis of paraffin-embedded human breast cancer,Lung breast tissues using EGF mouse mAb



Figure 3: Immunohistochemical analysis of paraffin-embedded human Uterus tissues using anFtEG mouse mAb

EGF Antibody - References

1. Biochem J. 1992 Dec 1;288 (Pt 2):395-405. 2. Oncogene. 2000 Mar 16;19(12):1509-18. 3. Nature. 2002 Mar 14;416(6877):183-7. 4. Radiat Res. 2003 Apr;159(4):439-52.