10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

EGF Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1339a

Product Information

Application	WB, IHC, E
Primary Accession	P01133
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	9D7F11
Isotype	IgG1
Calculated MW	133994
Description	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.

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.

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.

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.

Images

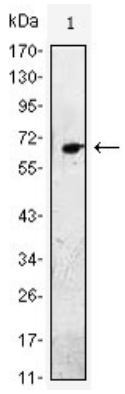

Figure 1: Western blot analysis using EGF mouse mAb against EGF-hIgGFc transfected HEK293 cell lysate.

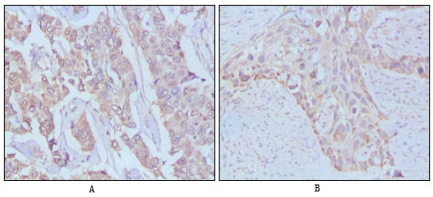

Figure 2: Immunohistochemical analysis of paraffin-embedded human breast cancer,Lung breast tissues using EGF mouse mAb

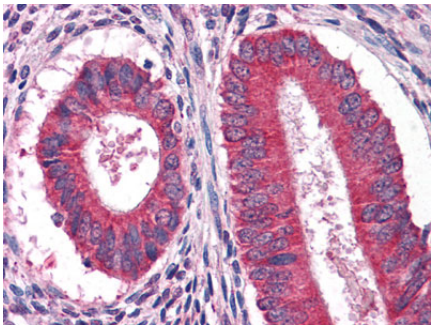

Figure 3: Immunohistochemical analysis of paraffin-embedded human Uterus tissues using anFtEG mouse mAb