EGF Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	EGF, Monoclonal Antibody
Full Product Name	EGF Mouse mAb
Product Gene Name	anti-EGF antibody
Product Synonym Names	URG; HOMG4; EGF
Clonality	Monoclonal
Isotype	IgG1
Clone Number	9D7F11
Host	Mouse
Species Reactivity	Human
Form/Format	Ascitic fluid containing 0.03% Sodium Azide.
Purity/Purification	Ascitic Fluid
Preparation and Storage	Store at 4 degree C short term. Store at -20 degree C long term. Avoid freeze/thaw cycle.
Molecular Weight	134kDa
OMIM	gene 611718
3D Structure	ModBase 3D Structure for P01133
Immunogen	Purified recombinant fragment of human EGF expressed in E. Coli.
Cellular Localization	Membrane
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-EGF antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Flow Cytometry (FC/FACS), ELISA (EIA)
Application Notes for anti-EGF antibody	WB: 1:500-1:2000 IHC: 1:200-1:1000 ELISA: 1:10000
Related Product Information for anti-EGF antibody	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.
Other Notes	Small volumes of anti-EGF antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for EGF purchase	MBS8538582 is an antibody targeting EGF. Also known as EGF Mouse mAb. Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EGF. It may not necessarily be applicable to this product.

NCBI GI #	251757262

NCBI GeneID	1950
NCBI Accession #	P01133.2
UniProt Primary Accession #	P01133
UniProt Related Accession #	P01133
NCBI Official Full Name	Pro-epidermal growth factor
NCBI Official Synonym Full Names	epidermal growth factor
NCBI Official Symbol	EGF
NCBI Official Synonym Symbols	URG; HOMG4
UniProt Protein Name	Pro-epidermal growth factor
UniProt Synonym Protein Names	Urogastrone
Protein Family	Pro-epidermal growth factor
UniProt Gene Name	EGF
UniProt Synonym Gene Names	EGF
UniProt Entry Name	EGF_HUMAN
NCBI Protein Information	pro-epidermal growth factor
NCBI Summary for EGF	This gene encodes a member of the epidermal growth factor superfamily. The encoded preproprotein is proteolytically processed to generate the 53-amino acid epidermal growth factor peptide. This protein acts a potent mitogenic factor that plays an important role in the growth, proliferation and differentiation of numerous cell types. This protein acts by binding with high affinity to the cell surface receptor, epidermal growth factor receptor. Defects in this gene are the cause of hypomagnesemia type 4. Dysregulation of this gene has been associated with the growth and progression of certain cancers. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed. [provided by RefSeq, Jan 2016]
Research Articles on EGF	**1.** Study using spontaneous radiosensitive and radioresistant pancreatic cancer (PC) cell lines demonstrated that adaptive expression of epidermal growth factor (EGF) following exposure to ionizing radiation may induce radiosensitization of PC cells through induction of the cyclin D1/P53/poly(ADPribose) polymerase pathway.
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