



EGF Monoclonal Antibody

Catalog No	BYab-31458
Isotype	IgG
Reactivity	Human
Applications	WB;IF;ELISA
Gene Name	EGF
Protein Name	Pro-epidermal growth factor
Immunogen	Purified recombinant fragment of human EGF expressed in E. Coli.
Specificity	EGF Monoclonal Antibody detects endogenous levels of EGF protein.
Formulation	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	EGF; Pro-epidermal growth factor; EGF
Observed Band	
Cell Pathway	Membrane; Single-pass type I membrane protein.
Tissue Specificity	Expressed in kidney, salivary gland, cerebrum and prostate.
Function	disease:Defects in EGF are the cause of hypomagnesemia type 4 (HOMG4) [MIM:611718]; also known as renal hypomagnesemia normocalciuric. HOMG4 is a disorder characterized by massive renal hypomagnesemia and normal levels of serum calcium and calcium excretion. Clinical features include seizures, mild-to moderate psychomotor retardation, and brisk tendon reflexes.,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.,online information:Epidermal growth factor entry,similarity:Contains 9 EGF-like domains.,similarity:Contains 9 LDL-receptor class B repeats.,tissue specificity:Expressed in kidney, salivary gland, cerebrum and prostate.,

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**Background**

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],

matters needing attention

Avoid repeated freezing and thawing!

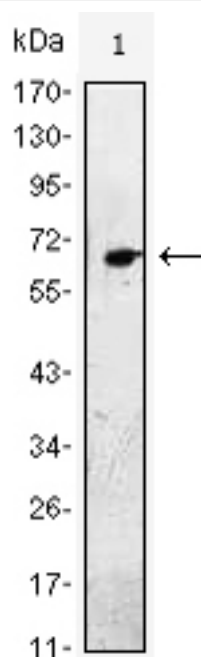
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

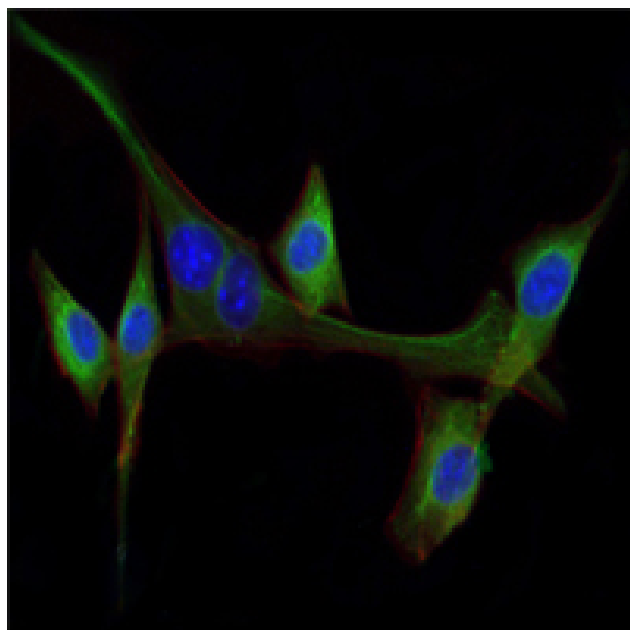
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Products Images



Western Blot analysis using EGF Monoclonal Antibody against EGF-hlgGfc transfected HEK293 cell lysate.



Immunofluorescence analysis of NIH/3T3 cells using EGF Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.