

## ARG56823 anti-EGF antibody (Biotin)

Package: 50 µg  
Store at: 4°C

### Summary

Product Description	Biotin-conjugated Rabbit Polyclonal antibody recognizes EGF
Tested Reactivity	Rat
Tested Application	ELISA, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	EGF
Species	Rat
Immunogen	E.coli derived Recombinant Rat EGF. (MNSNTGCPPS YDGYCLNGGV CMYVESVDYR VCNCVIGYIG ERCQHRDLRW WKLR)
Conjugation	Biotin
Alternate Names	Urogastrone; Pro-epidermal growth factor; URG; HOMG4; EGF

### Application Instructions

Application table	Application	Dilution
	ELISA	Direct: 0.25 - 1.0 µg/ml Sandwich: 0.25 - 1.0 µg/ml with ARG56714 as a capture antibody
	WB	0.5 - 1.0 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

Form	Liquid
Purification	Purified by affinity chromatography.
Buffer	PBS (pH 7.2)
Concentration	1 mg/ml
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

### Bioinformation

Database links

[GeneID: 25313 Rat](#)

[Swiss-port # P07522 Rat](#)

Gene Symbol

Egf

Gene Full Name

epidermal growth factor

Background

This gene encodes a member of the epidermal growth factor superfamily. The encoded protein is synthesized as a large precursor molecule that is proteolytically cleaved 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 the high affinity 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. Alternate splicing results in multiple transcript variants.[provided by RefSeq, May 2010]

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. [UniProt]

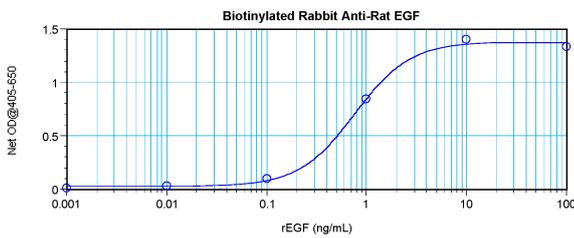
Calculated Mw

134 kDa

PTM

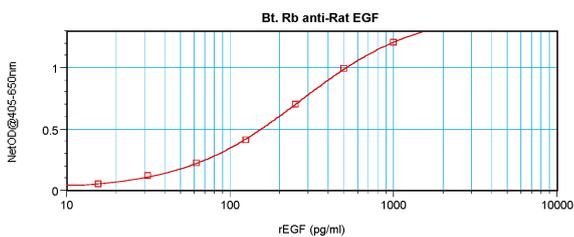
O-glycosylated with core 1-like and core 2-like glycans. It is uncertain if Ser-954 or Thr-955 is O-glycosylated. The modification here shows glycan heterogeneity: HexHexNAc (major) and Hex2HexNAc2 (minor).

## Images



ARG56823 anti-EGF antibody (Biotin) standard curve image

Direct ELISA: ARG56823 anti-EGF antibody (Biotin) at 0.25 - 1.0  $\mu\text{g/ml}$  results of a typical standard run with optical density.



ARG56823 anti-EGF antibody (Biotin) standard curve image

Sandwich ELISA: ARG56823 anti-EGF antibody (Biotin) as a detection antibody at 0.25 - 1.0  $\mu\text{g/ml}$  combined with ARG56714 anti-EGF antibody as a capture antibody. Results of a typical standard run with optical density.