ARG56714
anti-EGF antibody

Package: 50 µg
Store at: -20°C

Summary

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

Application Instructions

Application table

Application	Dilution
ELISA	Sandwich: 0.5 - 2.0 µg/ml with ARG56823 as a detection antibody
IHC-Fr	1.0 µg/ml
Neut	< 0.1 µg/ml (To yield [ND50] of the biological activity of Rat EGF (0.1 ng/ml))
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.

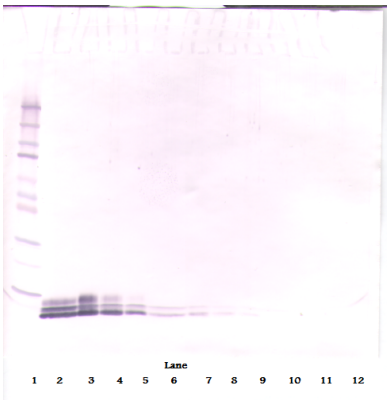
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.2)
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. 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

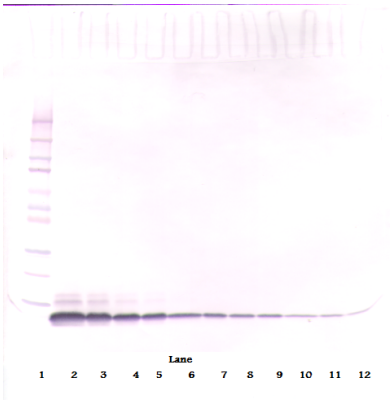
Database links	GeneID: 25313 Rat Swiss-port # P07522 Rat
Gene Symbol	Egf
Gene Full Name	epidermal growth factor
Background	This gene encodes a member of the epidermal growth factor superfamily. The encoded protein is synthesized as a large precursor molecule that is proteolytically cleaved to generate 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



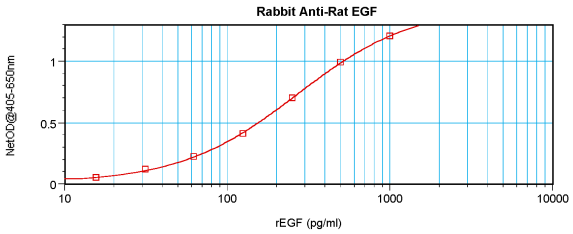
ARG56714 anti-EGF antibody WB image

Western blot: 250 - 0.24 ng of Rat EGF stained with ARG56714 anti-EGF antibody, under reducing conditions.



ARG56714 anti-EGF antibody WB image

Western blot: 250 - 0.24 ng of Rat EGF stained with ARG56714 anti-EGF antibody, under non-reducing conditions.



ARG56714 anti-EGF antibody standard curve image

Sandwich ELISA: ARG56714 anti-EGF antibody as a capture antibody at 0.5 - 2.0 µg/ml combined with ARG56823 anti-EGF antibody (Biotin) as a detection antibody. Results of a typical standard run with optical density.