



Rabbit Anti-MAEA antibody

SL12337R

Product Name:	MAEA
Chinese Name:	细胞增殖诱导蛋白5/肺癌相关蛋白10抗体
Alias:	1110030D19Rik; Cell proliferation inducing gene 5 protein; Cell proliferation-inducing gene 5 protein; EMP; Erythroblast macrophage protein; HLC 10; HLC-10; HLC10; Human lung cancer oncogene 10 protein; Lung cancer related protein 10; lung cancer-related protein 10; Macrophage erythroblast attacher; MAEA; MAEA_HUMAN; MGC93683; PIG5; proliferation-inducing gene 5.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Horse,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	45kDa
Cellular localization:	The nucleuscytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human MAEA:171-250/396
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Emp is a 396 amino acid ubiquitously expressed adhesion protein. Expressed as 5 alternatively spliced isoforms, Emp contains one CTLH domain and one LisH domain. Emp can form a complex with F-actin, which is involved regulating actin distribution in

erythroblasts and macrophages. Considered to assist with cell division and nuclear architecture, Emp is localized with condensed chromatin at prophase, nuclear spindle poles at metaphase and in the contractile ring during telophase and cytokinesis. Although the exact function of Emp is unknown, Emp is suggested to be involvement in erythroblast-macrophage cell attachment, terminal maturation and enucleation of erythroid cells, and inhibiting apoptosis of erythroblasts.

Function:

Plays a role in erythroblast enucleation and in the development of the mature macrophages. Mediates the attachment of erythroid cell to mature macrophages, in correlation with the presence of MAEA at cell surface of mature macrophages; This MAEA-mediated contact inhibits erythroid cells apoptosis. Participates to erythroblastic island formation, which is the functional unit of definitive erythropoiesis. Associates with F-actin to regulate actin distribution in erythroblasts and macrophages. May contribute to nuclear architecture and cells division events.

Subunit:

Forms a complex with F-actin.

Subcellular Location:

Nucleus matrix. Cell membrane. Cytoplasm, cytoskeleton. Note=Localized as nuclear speckled-like pattern.

Tissue Specificity:

Ubiquitous.

Similarity:

Contains 1 CTLH domain.

Contains 1 LisH domain.

SWISS:

Q7L5Y9

Gene ID:

10296

Database links:

[Entrez Gene: 10296](#) Human

[Entrez Gene: 59003](#) Mouse

[Entrez Gene: 298982](#) Rat

[Entrez Gene: 426024](#) Chicken

[Entrez Gene: 511956](#) Cow

[Omim: 606801](#) Huma

[SwissProt: Q5F398](#) Chicken

[SwissProt: Q3MHJ2](#) Cow

[SwissProt: Q7L5Y9](#) Human

[SwissProt: Q4VC33](#) Mouse

[SwissProt: Q5RKJ1](#) Rat

[Unigene: 139896](#) Human

[Unigene: 281642](#) Mouse

[Unigene: 101181](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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