

Emp Polyclonal Antibody Catalog # AP69726

Specification

Emp Polyclonal Antibody - Product Information

Application	WB, IHC-P
Primary Accession	Q7L5Y9
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

Emp Polyclonal Antibody - Additional Information

Gene ID 10296

Other Names

MAEA; EMP; HLC10; PIG5; Macrophage erythroblast attacher; Cell proliferation-inducing gene 5 protein; Erythroblast macrophage protein; Human lung cancer oncogene 10 protein; HLC-10

Dilution

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.

IHC-P~~N/A

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

Emp Polyclonal Antibody - Protein Information

Name MAEA

Function

Core component of the CTLH E3 ubiquitin-protein ligase complex that selectively accepts ubiquitin from UBE2H and mediates ubiquitination and subsequent proteasomal degradation of the transcription factor HBP1. MAEA and RMND5A are both required for catalytic activity of the CTLH E3 ubiquitin-protein ligase complex (PubMed:29911972). MAEA is required for normal cell proliferation (PubMed:29911972). The CTLH E3 ubiquitin-protein ligase complex is not required for the degradation of enzymes involved in gluconeogenesis, such as FBP1 (PubMed:29911972). Plays a role in erythroblast enucleation during erythrocyte maturation and in the development of mature macrophages (By similarity). Mediates the attachment of erythroid cell to mature macrophages; this MAEA-mediated contact inhibits erythroid cell apoptosis (PubMed:9763581). Participates in erythroblastic island formation, which is the

functional unit of definitive erythropoiesis. Associates with F-actin to regulate actin distribution in erythroblasts and macrophages (By similarity). May contribute to nuclear architecture and cells division events (Probable).

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:Q4VC33}. Nucleus, nucleoplasm. Nucleus matrix. Cell membrane. Cytoplasm, cytoskeleton. Note=Detected in a nuclear, speckled- like pattern (PubMed:16510120). Localized with condensed chromatin at prophase; Detected in nuclear spindle poles at metaphase and in the contractile ring during telophase and cytokinesis (PubMed:16510120) Present in cytoplasm, nuclear matrix and at the cell surface in macrophages; predominantly nuclear in immature macrophages and predominantly detected at the cell surface in mature macrophages Colocalizes with F-actin in macrophages (By similarity) {ECO:0000250|UniProtKB:Q4VC33, ECO:0000269|PubMed:16510120}

Tissue Location

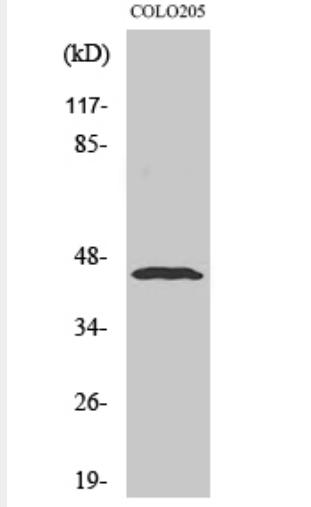
Detected at macrophage membranes (at protein level). Ubiquitous.

Emp Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Emp Polyclonal Antibody - Images



Western Blot analysis of various cells using Emp Polyclonal Antibody diluted at 1:500

Emp Polyclonal Antibody - Background

Core component of the CTLH E3 ubiquitin-protein ligase complex that selectively accepts ubiquitin

from UBE2H and mediates ubiquitination and subsequent proteasomal degradation of the transcription factor HBP1. MAEA and RMND5A are both required for catalytic activity of the CTLH E3 ubiquitin-protein ligase complex (PubMed:29911972). MAEA is required for normal cell proliferation (PubMed:29911972). The CTLH E3 ubiquitin-protein ligase complex is not required for the degradation of enzymes involved in gluconeogenesis, such as FBP1 (PubMed:29911972). Plays a role in erythroblast enucleation during erythrocyte maturation and in the development of mature macrophages (By similarity). Mediates the attachment of erythroid cell to mature macrophages; this MAEA- mediated contact inhibits erythroid cell apoptosis (PubMed:9763581). Participates in erythroblastic island formation, which is the functional unit of definitive erythropoiesis. Associates with F-actin to regulate actin distribution in erythroblasts and macrophages (By similarity). May contribute to nuclear architecture and cells division events (Probable).