

Recombinant human EMP/MAEA protein

Catalog Number: ATGP2251

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-396aa

UniProt No.

Q7L5Y9

NCBI Accession No.

NP_001017405

Alternative Names

Macrophage erythroblast attacher isoform 1, EMLP, EMP, GID9, HLC-10, PIG5

PRODUCT SPECIFICATION

Molecular Weight

47.7 kDa (419aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1M urea, 10% glycerol

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Macrophage erythroblast attacher isoform 1, also known as MAEA, is a 396 amino acid ubiquitously expressed adhesion protein. Expressed as 5 alternatively spliced isoforms, MAEA contains one CTLH domain and one Lish domain. MAEA 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, MAEA is localized with condensed chromatin at prophase, nuclear spindle poles at metaphase and in the contractile ring during telophase and cytokinesis. Recombinant human MAEA protein, fused to His-tag at N-terminus, was expressed in

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Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSMVQESA AQLSMTLKVQ EYPTLKVPYE TLNKRFRAAQ KNIDRETSHV TMVVAELEKT
 LSGCPAVDSV VSLLDGVVEK LSVLKRKAVE SIQAEDES AK LCKRRIEHLK EHSSDQAAA SVWKRKRMDR MMVEHLLRCG
 YYNTAVKLAR QSGIEDLVNI EMFLTAKEVE ESLEERRETAT CLAWCHDNKS RLRKMKSCLE FSLRIQEFIE LIRQNKRLDA
 VRHARKHFSQ AEGSQLDEV R QAMGMLAFPP DTHISPYKDL LDPARWRMLI QQFRYDNYRL HQLGNNSVFT LTLQAGLSAI
 KTPQCYKEDG SSKSPDCPVC SRSLNKLAQP LPMAHCAN SR LVCKISGDVM NENNPPMMLP NGYVYGYN SL LSIRQDDKVV
 CPRTKEVFHF SQA EK VYIM

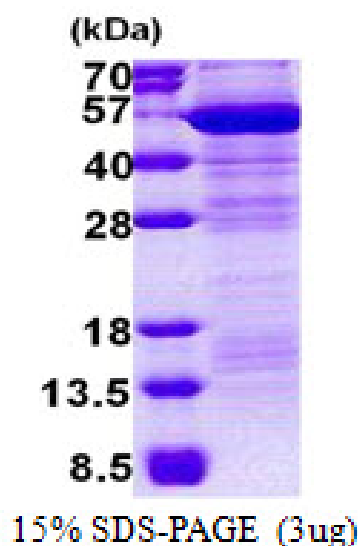
General References

Soni S., et al. (2006) J Biol Chem. 281:20181-20189.

Bala S., et al. (2006) Biochem Biophys Res Commun. 342:1040-1048.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.