

## Recombinant Human MAEA, His-tagged

**Cat. No.** MAEA-15895H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human MAEA protein, fused to His tag at N-terminus, was expressed in E.coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 1-396aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1M Urea, 10% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Molecular Mass</b>   | 47.7 kDa (419aa)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MGSMVQESA AQLSMTLKVQ EYPTLKVPE<br>TLNKRFRAAQ KNIDRETSV TMVVAELEKT LSGCPAVDSV VSLLDGVVEK<br>LSVLKRKAVE SIQAEDSAK LCKRRIEHLK EHSSDQPAAA SVWKRKRMDR<br>MMVEHLLRCG YYNTAVKLAR QSGIEDLVNI EMFLTAKEVE ESLERRETAT                                                                                                                                                                                                                                                                                                                                                  |

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CLAWCHDNKS RLRKMKSCLE FSLRIQEFIE LIRQNKRLDA VRHARKHFSQ  
 AEGSQLDEV R QAMGMLAFPP DTHISPYKDL LDPARWRMLI QQFRYDNYRL  
 HQLGNNSVFT LTLQAGLSAI KTPQCYKEDG SSKSPDCPVC SRSLNKLAQP  
 LPMAHCANSR LVCKISGDVM NENNPPMMLP NGYVYGYNSL LSIRQDDKV  
 CPRTKEVFHF SQAEEKVYIM

**Purity** >85% by SDS - PAGE

**Applications** SDS-PAGE

**Storage** Can be stored at 4°C short term. For long term storage, aliquot and store at at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Concentration** 0.25 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** MAEA macrophage erythroblast attacher [ Homo sapiens ]

**Official Symbol** MAEA

**Synonyms** MAEA; macrophage erythroblast attacher; EMP; proliferation-inducing gene 5; lung cancer-related protein 10; erythroblast macrophage protein; human lung cancer oncogene 10 protein; cell proliferation-inducing gene 5 protein; EMLP; PIG5; HLC-10;

**Gene ID** 10296

**mRNA Refseq** NM\_001017405

**Protein Refseq** NP\_001017405

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|                            |                |
|----------------------------|----------------|
| <b>MIM</b>                 | 606801         |
| <b>UniProt ID</b>          | Q7L5Y9         |
| <b>Chromosome Location</b> | 4p16.3         |
| <b>Function</b>            | actin binding; |

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