

For Research Use Only

# MAEA Recombinant antibody

Catalog Number:83267-1-RR



## Basic Information

<b>Catalog Number:</b> 83267-1-RR	<b>GenBank Accession Number:</b> BC001225	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 10296	<b>CloneNo.:</b> 240097B2
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q7L5Y9	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Isotype:</b> IgG	<b>Full Name:</b> macrophage erythroblast attacher	<b>Affinity:</b> $K_D < 1.00 \times 10^{-12}M$
<b>Immunogen Catalog Number:</b> AG27150	<b>Calculated MW:</b> 45 kDa	$K_{Off} < 1.00 \times 10^{-6}M$
	<b>Observed MW:</b> 45 kDa	$K_{On} = 9.49 \times 10^4M$

## Applications

**Tested Applications:**  
WB, FC (Intra), ELISA

**Species Specificity:**  
human, mouse

**Positive Controls:**

WB : Jurkat cells, HepG2 cells, C2C12 cells, U2OS cells, A549 cells, HeLa cells, MCF-7 cells

## Background Information

MAEA(macrophage erythroblast attacher) is a core component of the CTLH E3 ubiquitin-protein ligase complex. MAEA is required for normal cell proliferation and plays a role in erythroblast enucleation during erythrocyte maturation and in the development of mature macrophages. N-terminus MAEA and full-length MAEA are mostly expressed in nuclear and can be detected at low level in the cytoplasm of some cells, while C-terminus MAEA can be detected in the cytoplasm and nucleoli within the nucleus. MAEA mediates the attachment of erythroid cell to mature macrophages which can inhibit erythroid cell apoptosis. The expression of MAEA may be associated with the type 2 diabetes mellitus.(PubMed: 28955747, 24143168, 29911972, 29911972, 30674470, 9763581).

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

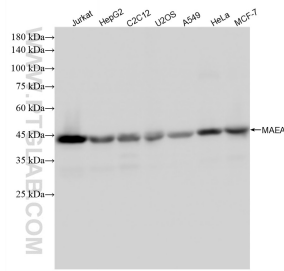
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free  
in USA), or 1(312) 455-8498 (outside USA)

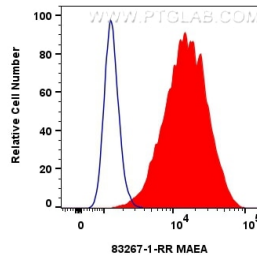
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

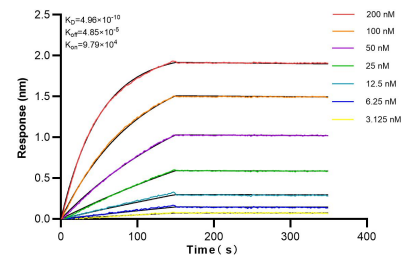
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83267-1-RR (MAEA antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



$1 \times 10^6$  U-251 cells were intracellularly stained with 0.25  $\mu$ g MAEA Recombinant antibody (83267-1-RR, Clone:240097B2) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25  $\mu$ g Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Biacore interferometry (BLI) kinetic assays of 83267-1-RR against Human MAEA were performed. The affinity constant is 0.496 nM.