

For Research Use Only

MAEA Recombinant antibody, PBS Only (Detector)

Catalog Number: 83267-2-PBS



Basic Information

Catalog Number: 83267-2-PBS	GenBank Accession Number: BC001225	Purification Method: Protein A purification
Size: 100ug , Concentration: 1mg/ml by Nanodrop;	GeneID (NCBI): 10296	CloneNo.: 240097C9
Source: Rabbit	UNIPROT ID: Q7L5Y9	
Isotype: IgG	Full Name: macrophage erythroblast attacher	
Immunogen Catalog Number: AG27150	Calculated MW: 45 kDa	
	Observed MW: 45 kDa	

Applications

Tested Applications:
WB, FC (Intra), Cytometric bead array, Indirect ELISA

Species Specificity:
human

Product Information

83267-2-PBS targets MAEA as part of a matched antibody pair:

MP00233-2: 83267-1-PBS capture and 83267-2-PBS detection (validated in Cytometric bead array)

MP00233-3: 83267-4-PBS capture and 83267-2-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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).

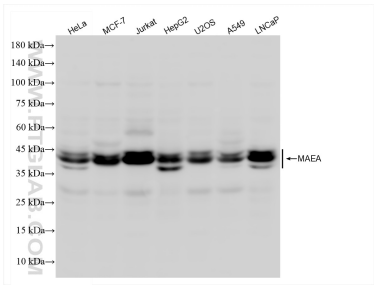
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS Only

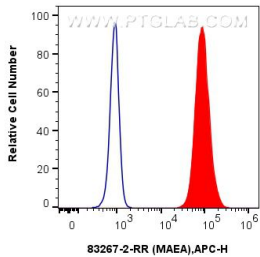
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

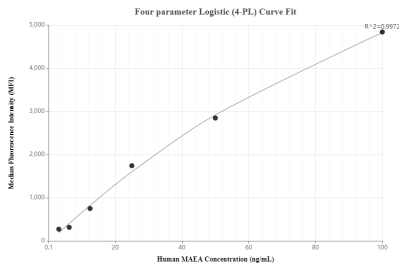
Selected Validation Data



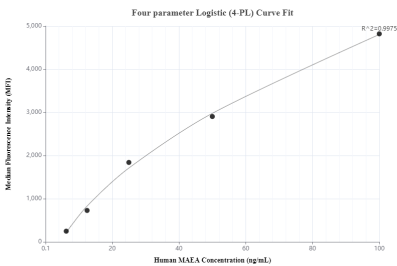
Various lysates were subjected to SDS PAGE followed by western blot with 83267-2-RR (MAEA antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83267-2-PBS in a different storage buffer formulation.



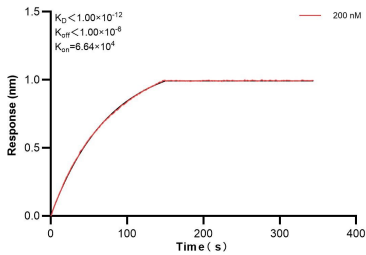
1x10⁶ U-251 cells were intracellularly stained with 0.25 ug MAEA Recombinant Antibody (83267-2-RR, Clone:240097C9) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set. This data was developed using the same antibody clone with 83267-2-PBS in a different storage buffer formulation.



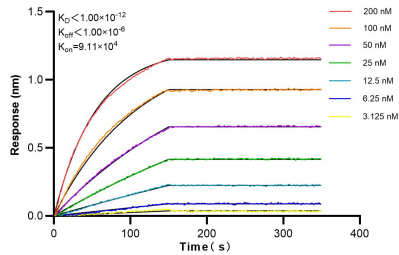
Cytometric bead array standard curve of MP00233-2, MAEA Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83267-1-PBS. Detection antibody: 83267-2-PBS. Standard: Ag27150. Range: 1.25-100 ng/mL.



Cytometric bead array standard curve of MP00233-3, MAEA Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83267-4-PBS. Detection antibody: 83267-2-PBS. Standard: Ag27150. Range: 2.5-100 ng/mL.



Biolayer interferometry (BLI) kinetic assay of 83267-2-PBS against Human MAEA was performed. The affinity constant is below 1 pM.



Biolayer interferometry (BLI) kinetic assays of 83267-2-RR against Human MAEA were performed. The affinity constant is below 1 pM.