

For Research Use Only

# MIER2 Recombinant antibody, PBS Only (Detector)

Catalog Number: 84216-1-PBS



## Basic Information

<b>Catalog Number:</b> 84216-1-PBS	<b>GenBank Accession Number:</b> BC028203	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 54531	<b>CloneNo.:</b> 241458D2
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q8N344	
<b>Isotype:</b> IgG	<b>Full Name:</b> mesoderm induction early response 1, family member 2	
<b>Immunogen Catalog Number:</b> AG11491	<b>Calculated MW:</b> 545 aa, 60 kDa	
	<b>Observed MW:</b> 60 kDa	

## Applications

**Tested Applications:**  
WB, IF/ICC, Cytometric bead array, Indirect ELISA

**Species Specificity:**  
human

## Product Information

84216-1-PBS targets MIER2 as part of a matched antibody pair:

MP01148-1: 84216-2-PBS capture and 84216-1-PBS detection (validated in Cytometric bead array)

MP01148-2: 84216-3-PBS capture and 84216-1-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

Mesoderm induction early response 2 (MIER2) is a member of the MIER family of proteins, which is relatively conservative in evolution and includes three members: MIER1, MIER2, and MIER3. The MIER family is known to contribute to histone deacetylase (HDAC) activity and actively participate in histone deacetylation (PMID: 28046085; PMID: 38702028). In renal cell carcinoma, MIER2 represses PGC1A expression by recruiting HDAC1 to deacetylate P53 (PMID: 28046085).

## Storage

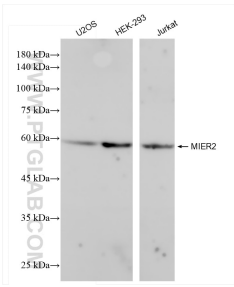
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

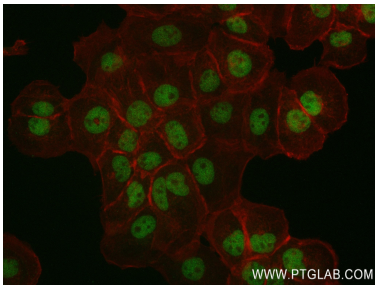
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

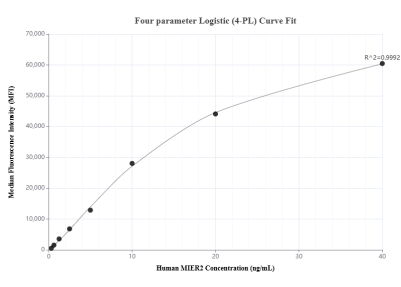
Selected Validation Data



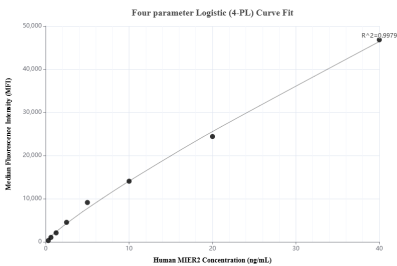
Various lysates were subjected to SDS PAGE followed by western blot with 84216-1-RR (MIER2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84216-1-PBS in a different storage buffer formulation.



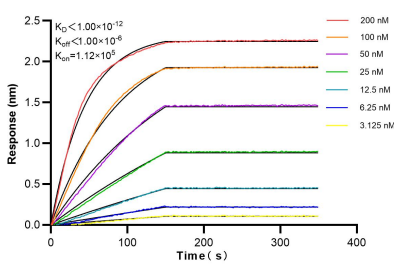
Immunofluorescent analysis of (4% PFA) fixed A431 cells using MIER2 antibody (84216-1-RR, Clone: 241458D2 ) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 84216-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP01148-1, MIER2 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84216-2-PBS. Detection antibody: 84216-1-PBS. Standard: Ag11491. Range: 0.313-40 ng/mL



Cytometric bead array standard curve of MP01148-2, MIER2 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84216-3-PBS. Detection antibody: 84216-1-PBS. Standard: Ag11491. Range: 0.313-40 ng/mL



Biolayer interferometry (BLI) kinetic assays of 84216-1-RR against Human MIER2 were performed. The affinity constant is below 1 pM.