

For Research Use Only

# Mouse CD297/ART4 Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number: 87399-1-PBS



## Basic Information

<b>Catalog Number:</b> 87399-1-PBS	<b>GenBank Accession Number:</b> NM_026639.2	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 109978	<b>CloneNo.:</b> 252721F4
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9CRA0	
<b>Isotype:</b> IgG	<b>Full Name:</b> ADP-ribosyltransferase 4	
<b>Immunogen Catalog Number:</b> EG6315	<b>Calculated MW:</b> 33 kDa	
	<b>Observed MW:</b> 33 kDa	

## Applications

**Tested Applications:**  
WB, Cytometric bead array, Indirect ELISA

**Species Specificity:**  
mouse

## Product Information

87399-1-PBS targets CD297/ART4 as part of a matched antibody pair:

MP03043-1: 87399-2-PBS capture and 87399-1-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

CD297/ART4 is a GPI-anchored ecto-ADP-ribosyltransferase best known as the molecular carrier of Dombrock blood group antigens on erythrocytes. Expressed on red blood cells, hematopoietic progenitors, and select immune cells, it participates in cell-surface signaling and immune recognition, though its catalytic activity is limited. CD297/ART4 polymorphisms underlie clinically significant transfusion reactions, making it a key target in hematology, transfusion medicine, and erythroid biology.

## Storage

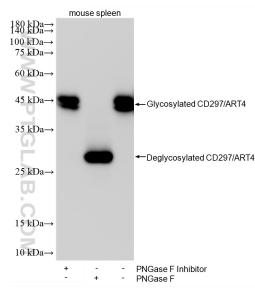
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

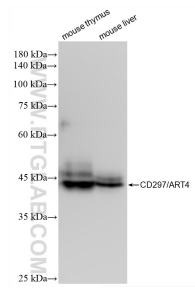
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
W: ptglab.com

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

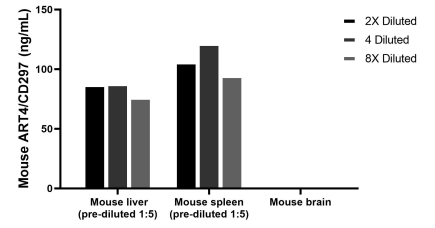
## Selected Validation Data



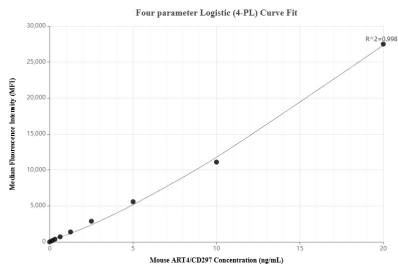
Various lysates were subjected to SDS PAGE followed by western blot with 87399-1-RR (CD297/ART4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87399-1-PBS in a different storage buffer formulation.



Various lysates were subjected to SDS PAGE followed by western blot with 87399-1-RR (CD297/ART4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87399-1-PBS in a different storage buffer formulation.



The mean ART4/CD297 concentration was determined to be 83.5 ng/mL in Mouse liver tissue extract based on a 8.4 mg/mL extract load, 107.1 ng/mL in Mouse spleen tissue extract based on a 6.4 mg/mL extract load, Mouse brain tissue extract were served as a negative control.



Cytometric bead array standard curve of MP03043-1, MOUSE ART4/CD297 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 87399-2-PBS. Detection antibody: 87399-1-PBS. Standard: Eg6315. Range: 0.156-20 ng/mL.