

For Research Use Only

# Mouse CD39/ENTPD1 Recombinant antibody, PBS Only (Detector)

Catalog Number: 86327-1-PBS



## Basic Information

Catalog Number:	86327-1-PBS	GenBank Accession Number:	NM_009848.4	Purification Method:	Protein A purification
Size:	100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI):	12495	CloneNo.:	250764B5
Source:	Rabbit	UNIPROT ID:	P55772		
Isotype:	IgG	Full Name:	ectonucleoside triphosphate diphosphohydrolase 1		
Immunogen Catalog Number:	EG3483	Calculated MW:	57 kDa		
		Observed MW:	75 kDa		

## Applications

Tested Applications:  
WB, Sandwich ELISA, Indirect ELISA, Sample test  
Species Specificity:  
mouse

## Product Information

86327-1-PBS targets CD39/ENTPD1 as part of a matched antibody pair:

MP02378-2: 86327-4-PBS capture and 86327-1-PBS detection (validated in Sandwich ELISA)

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

ENTPD1 (Ectonucleoside triphosphate diphosphohydrolase 1) is also named CD39, NTPDase 1, and Ecto-ATPDase 1 and belongs to the GDA1/CD39 NTPase family. In the nervous system, it can hydrolyze ATP and other nucleotides to regulate purinergic neurotransmission. It is a noncovalent tetrameric protein and detergent inhibition of enzymatic activity is caused by dissociation of ectoapyrase tetramers into monomers (PMID: 9733785). And it is a 70- to 100-kDa protein that is heavily N-glycosylated (PMID: 7930580). This protein has 6 glycosylation sites and 3 isoforms (58 kDa, 59 kDa, and 34 kDa) produced by alternative splicing.

## Storage

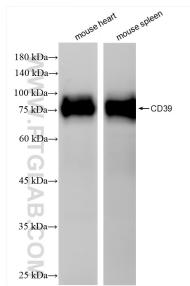
Storage:  
Store at -80°C.  
Storage Buffer:  
PBS only, pH7.3

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)

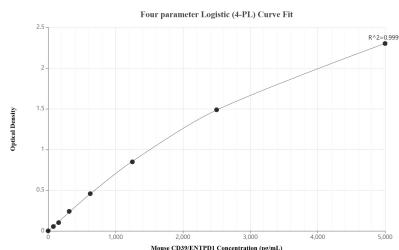
E: proteintech@ptglab.com  
W: ptglab.com

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

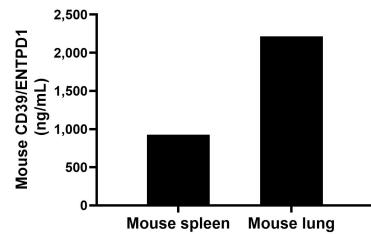
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86327-1-RR (CD39 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86327-1-PBS in a different storage buffer formulation.



Sandwich ELISA standard curve of MP02378-2, Mouse CD39/ENTPD1 Recombinant Matched Antibody Pair - PBS only. 86327-4-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg3483. 86327-1-PBS was HRP conjugated as the detection antibody. Range: 78.1-5000 pg/mL



The mean CD39/ENTPD1 concentration was determined to be 926.3 ng/mL in mouse spleen extract based on a 8.5 mg/mL extract load and 2,212.6 ng/mL in mouse lung extract based on a 5.9 mg/mL extract load.