

For Research Use Only

# Mouse CD8b Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number: 86024-1-PBS



## Basic Information

Catalog Number:	86024-1-PBS	GenBank Accession Number:	NM_009858.2	Purification Method:	Protein A purification
Size:	100ug, Concentration: 1 mg/ml by Nanodrop;	GenID (NCBI):	12526	CloneNo.:	250480F2
Source:	Rabbit	UNIPROT ID:	P10300		
Isotype:	IgG	Full Name:	CD8 antigen, beta chain 1		
Immunogen Catalog Number:	EG4275	Calculated MW:	24 kDa		
		Observed MW:	26-30 kDa		

## Applications

### Tested Applications:

WB, Indirect ELISA

### Species Specificity:

mouse

## Product Information

86024-1-PBS targets CD8b as part of a matched antibody pair:

MPO2794-1: 86024-1-PBS capture and 86024-2-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

CD8b (T-cell surface glycoprotein CD8 beta chain) is an integral membrane glycoprotein that forms disulfide-linked heterodimers with CD8a (CD8 alpha chain). The CD8 alpha/beta heterodimer is the predominant CD8 complex expressed on the cell surface (PMID: 1534146; 2111591). CD8 is a transmembrane glycoprotein predominantly expressed on cytotoxic T cells and can also be found on natural killer cells, cortical thymocytes, and dendritic cells. CD8 serves as a co-receptor for the T cell receptor (TCR). Both CD8 and TCR recognize antigens displayed by an antigen presenting cell (APC) in the context of class I MHC molecules. CD8 plays a role in T cell development and activation of mature T cells.

## Storage

### Storage:

Store at -80°C.

### Storage Buffer:

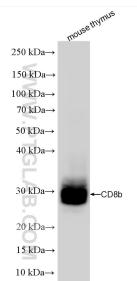
PBS only, pH7.3

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)

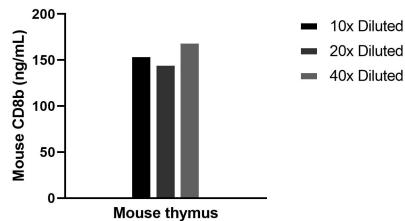
E: proteintech@ptglab.com  
W: ptglab.com

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

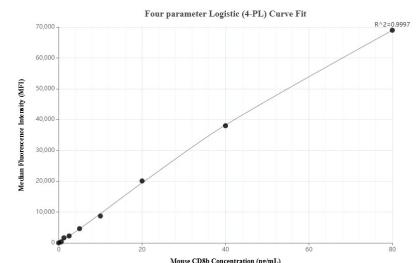
## Selected Validation Data



Mouse thymus tissue was subjected to SDS PAGE followed by western blot with 86024-1-RR (CD8 beta antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86024-1-PBS in a different storage buffer formulation.



The mean CD8b concentration was determined to be 157.0 ng/mL in Mouse thymus tissue extract based on a 5.8 mg/mL extract load.



Cytometric bead array standard curve of MP02794-1, MOUSE CD8b Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 86024-1-PBS. Detection antibody: 86024-2-PBS. Standard: Eg4275. Range: 0.625-80 ng/mL.