

For Research Use Only

# Mouse CD74 Recombinant antibody, PBS Only (Capture)

Catalog Number: 85802-1-PBS



## Basic Information

<b>Catalog Number:</b> 85802-1-PBS	<b>GenBank Accession Number:</b> NM_001042605.1	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 16149	<b>CloneNo.:</b> 250109F2
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P04441-1	
<b>Isotype:</b> IgG	<b>Full Name:</b> CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated)	
<b>Immunogen Catalog Number:</b> EG2716	<b>Calculated MW:</b> 32 kDa	
	<b>Observed MW:</b> 38 kDa	

## Applications

**Tested Applications:**  
WB, Cytometric bead array, Sandwich ELISA, Indirect ELISA, Sample test

**Species Specificity:**  
mouse, rat

## Product Information

85802-1-PBS targets CD74 as part of a matched antibody pair:

MP02137-1: 85802-1-PBS capture and 85802-2-PBS detection (validated in Cytometric bead array, 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

CD74, also known as MHC class II invariant chain li or HLA-DR-associated invariant chain, is a non-polymorphic type II transmembrane glycoprotein. CD74 is mainly distributed in B cells, monocytes, Langerhans cells, dendritic cells and thymic epithelial cells, and is also expressed in epithelial cells. CD74 plays a key role in MHC class II antigen processing and also serves as a cell surface receptor for the macrophage cytokine MIF. CD74 plays an important role in cardiovascular diseases such as atherosclerosis, ischemic heart disease, and myocardial hypertrophy. (PMID: 15475450; PMID: 27752708; PMID: 38992165; PMID: 36712241).

## Storage

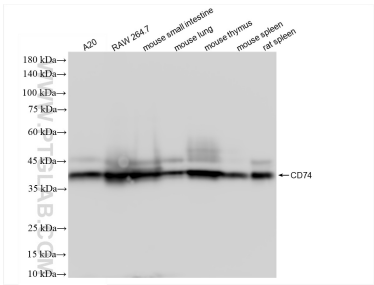
**Storage:**  
Store at -80°C.

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

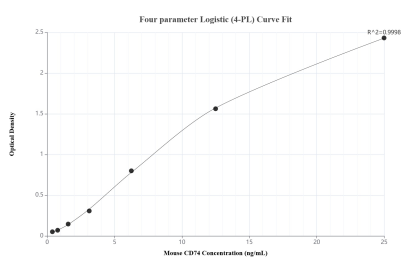
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

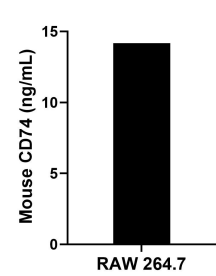
Selected Validation Data



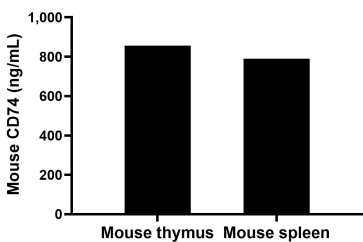
Various lysates were subjected to SDS PAGE followed by western blot with 85802-1-RR (CD74 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85802-1-PBS in a different storage buffer formulation.



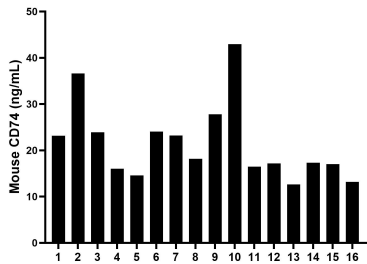
Sandwich ELISA standard curve of MP02137-1, Mouse CD74 Recombinant Matched Antibody Pair - PBS only. 85802-1-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg2716. 85802-2-PBS was HRP conjugated as the detection antibody. Range: 0.391-25 ng/mL.



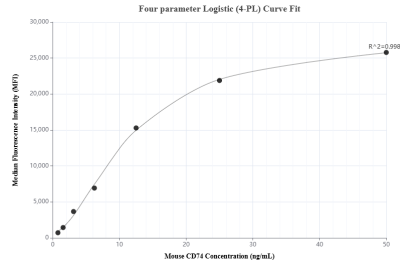
RAW 264.7 were cultured in DMEM supplemented with 10% fetal bovine serum, 2.5 mM L-glutamine, 100 U/mL penicillin, and 100 µg/mL streptomycin sulfate. An aliquot of the cell culture supernate was removed, assayed for mouse CD74, and measured 14.17 ng/mL.



The mean CD74 concentration was determined to be 856.01 ng/mL in mouse thymus tissue extract based on a 5.80 mg/mL extract load and 789.39 ng/mL in mouse spleen tissue extract based on a 8.50 mg/mL extract load.



Serum of sixteen mice was measured. The CD74 concentration of detected samples was determined to be 21.51 pg/mL with a range of 12.61-42.94 pg/mL.



Cytometric bead array standard curve of MP02137-1, MOUSE CD74 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 85802-1-PBS. Detection antibody: 85802-2-PBS. Standard: Eg2716. Range: 0.781-50 ng/mL.