

For Research Use Only

Mouse CD74 Recombinant antibody, PBS Only (Capture)

Catalog Number: 85802-1-PBS



Basic Information

Catalog Number:

85802-1-PBS

Concentration:

1 mg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG2716

GenBank Accession Number:

NM_001042605.1

GeneID (NCBI):

16149

UNIPROT ID:

P04441-1

Full Name:

CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated)

Calculated MW:

32 kDa

Observed MW:

38 kDa

Purification Method:

Protein A purification

CloneNo.:

250109F2

Applications

Tested Applications:

WB, Cytometric bead array, Sandwich ELISA, Indirect ELISA, Sample test

Species Specificity:

mouse, rat

Background Information

CD74, also known as MHC class II invariant chain Ii 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.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS only, pH7.3

For technical support and original validation data for this product please contact:

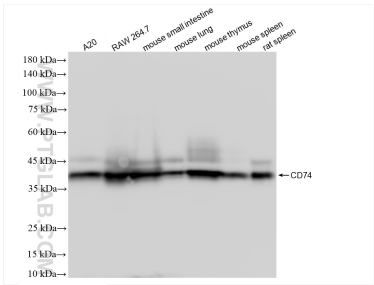
T: 4006900926

E: Proteintech-CN@ptglab.com

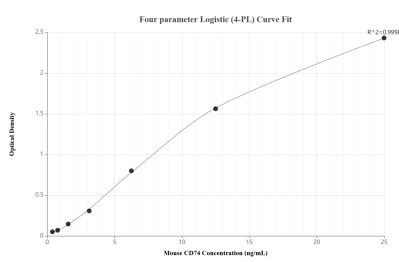
W: ptgcn.com

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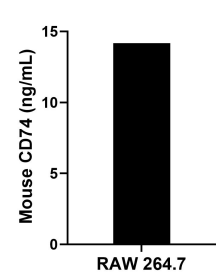
Selected Validation Data



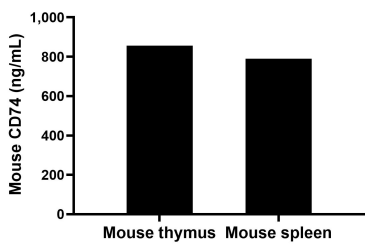
Various lysates were subjected to SDS PAGE followed by western blot with 85802-1-RR (CD74 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85802-1-PBS in a different storage buffer formulation.



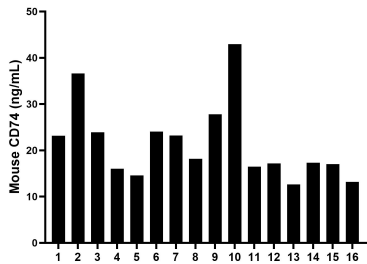
Sandwich ELISA standard curve of MP02137-1, Mouse CD74 Recombinant Matched Antibody Pair - PBS only. 85802-1-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg2716. 85802-2-PBS was HRP conjugated as the detection antibody. Range: 0.391-25 ng/mL.



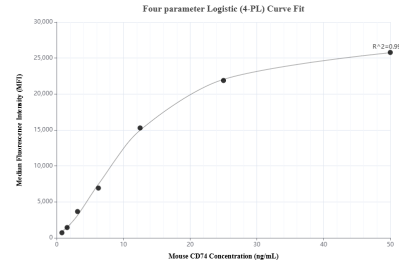
RAW 264.7 were cultured in DMEM supplemented with 10% fetal bovine serum, 2.5 mM L-glutamine, 100 U/mL penicillin, and 100 μ g/mL streptomycin sulfate. An aliquot of the cell culture supernate was removed, assayed for mouse CD74, and measured 14.17 ng/mL.



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.