

For Research Use Only

# Recombinant Mouse CD74 protein (mFc Tag)



Catalog Number: Eg4048

## Basic Information

**Species:**  
Mouse

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
mFc Tag

## Technical Specifications

**Purity:**  
>90 %, SDS-PAGE

**Endotoxin Level:**  
<0.1 EU/  $\mu$ g protein, LAL method

**Source:**  
HEK293-derived Mouse CD74 protein Gln56-Leu279 (Accession# P04441-1) with a mouse IgG Fc tag at the C-terminus.

**GeneID:**  
16149

**Accession:**  
P04441-1

**Predicted Molecular Mass:**  
52.1 kDa

**SDS-PAGE:**  
52-70 kDa, reducing (R) conditions

**Formulation:**  
Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

### Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

### Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

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.

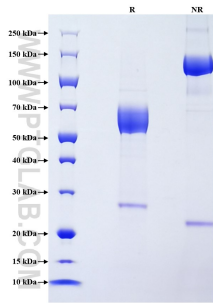
## References

1. Burton JD, et al. (2004). Clin Cancer Res.1;10(19):6606-11.
2. Su H, et al. (2017). Inflamm Res. 66(3):209-216.
3. Zhang L, et al. (2024). Cell Mol Life Sci.11;81(1):296.
4. Li QL, et al. (2023). Front Cardiovasc Med. 12;9:1049143.

## Synonyms

Class-II-associated invariant chain peptide, CLIP, H-2 class II histocompatibility antigen gamma chain, Ia antigen-associated invariant chain, Ii

## Selected Validation Data



Purity of Recombinant Mouse CD74 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

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

T: 027-87531629

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

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