

Human CellExp CD74/DHLA G, human recombinant protein
CD74, DHLA G, HLADG, II, Ia-GAMMA, p33, CLIP, INVG34
Catalog # PBV11010r**Specification****Human CellExp CD74/DHLA G, human recombinant protein - Product info**Primary Accession
Calculated MW[P04233](#)

This protein is fused with 6×His tag at the N-terminus, has a calculated MW of 19.3 kDa. The predicted N-terminus is Gln 73. DTT-reduced Protein migrates as 23-33 kDa due to glycosylation. KDa

Human CellExp CD74/DHLA G, human recombinant protein - Additional InfoGene ID **972**
Gene Symbol **CD74**
Other Names
CD74, DHLA G, HLADG, II, Ia-GAMMA, p33, CLIP, INVG34Gene Source **Human**
Source **HEK293 cells**
Assay&Purity **SDS-PAGE; ≥95%**
Assay2&Purity2 **N/A;**
Recombinant **Yes**
Results **Measured by its binding ability in a functional ELISA. Immobilized human CD74 at 5 µg/ml (100 µl/well) can bind biotinylated human CTSL1 with a linear range of 3.2 - 500 ng/ml.****Target/Specificity**
CD74/DHLA G**Application Notes**

Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

Format
Lyophilized**Storage**
-20°C; Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Generally 5-8% Mannitol or trehalose is added as a protectant before lyophilization.**Human CellExp CD74/DHLA G, human recombinant protein - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Human CellExp CD74/DHLAG, human recombinant protein - Images

Human CellExp CD74/DHLAG, human recombinant protein - Background

Cluster of Differentiation 74 (CD74) also known as HLA class II histocompatibility antigen gamma chain (HLADG), is a polypeptide involved in the formation and transport of MHC class II protein. The cell surface form of the invariant chain is known as CD74. CD74 is upregulated in several cancers and is also expressed by non-immune cells during inflammation. CD74 plays a critical role in MHC class II antigen processing by stabilizing peptide-free class II alpha / beta heterodimers in a complex soon after their synthesis and directing transport of the complex from the endoplasmic reticulum to the endosomal / lysosomal system where the antigen processing and binding of antigenic peptides to MHC class II takes place. CD74 / DHLAG also serves as cell surface receptor for the cytokine MIF.

Human CellExp CD74/DHLAG, human recombinant protein - References

Claesson L., et al. Proc. Natl. Acad. Sci. U.S.A. 80:7395-7399(1983).
Strubin M., et al. EMBO J. 3:869-872(1984).
Kudo J., et al. Nucleic Acids Res. 13:8827-8841(1985).
O'Sullivan D.M., et al. Proc. Natl. Acad. Sci. U.S.A. 83:4484-4488(1986).
Kalnine N., et al. Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.