

Recombinant Mouse CD74 Protein (His Tag)

Catalog Number:PKSM041252



Note: Centrifuge before opening to ensure complete recovery of vial contents.

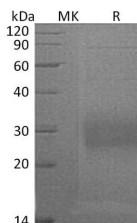
Description

Synonyms	Cluster of Differentiation 74;CD74 antigen;CD74 molecule;major histocompatibility complex;class II invariant chain;DHLA γ chain of class II antigens;HLA class II histocompatibility antigen gamma chain;HLADG;HLA-DR antigens-associated invariant chain;HLA-DR-gamma;Ia antigen-associated invariant chain;Ia-associated invariant chain;Ia-GAMMA;MHC HLA-DR gamma chain;CD74;DHLA γ ;HLADG;Ia-gamma;INVG34;
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Gln56-Leu215
Accession	P04441-2
Calculated Molecular Weight	19.4 kDa
Observed molecular weight	25-30 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μ g of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Mouse HLA class II histocompatibility antigen gamma chain (CD74), is a single-pass type II membrane glycoprotein which contains 1 thyroglobulin type-1 domain. Mouse CD74 shares 75% and 88% aa sequence identity with human and rat CD74, respectively. CD74 plays an important role in adaptive immunity, inflammation, and cancer. It plays a critical

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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 compartments where peptide loading of class II takes place. CD74 also associates with CD44 and binds with high affinity to the cytokine MIF, leading to inflammatory leukocyte responses, protection from tissue fibrosis, B cell proliferative and survival signaling, and the up-regulation of angiogenic factors in endometrial stromal cells.

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