

Recombinant Mouse CD74

Catalog No: CM13

Description	Recombinant Mouse HLA class II histocompatibility antigen gamma chain is produced by our Mammalian expression system and the target gene encoding Gln56-Leu215 is expressed with a 6His tag at the C-terminus.
Source	Human Cells
Alternative name	Cluster of Differentiation 74;CD74 antigen; CD74 molecule, major histocompatibility complex, class II invariant chain; DHLAG gamma 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; DHLAG; HLADG; Ia-gamma; INVG34
Accession No.	Q61247
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.
Quality Control	Purity: Greater than 95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Storage	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Amino Acid Sequence	QQQGRLDKLTITSQNLQLESRLMKLPKSAKPVSQMRMATPLLMRPMSMDNMLLGPVKNVTKYGNMTQ DHVMHLLTRSGPLEYPQLKGTFFENLHLKNSMDGVNWKIFESWMKQWLLFEMSKNSLEEKKPTEAP PKEPLDMEDLSSGLGVTRQELGQVTLV DHHHHHH
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 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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