

HLA Class II Histocompatibility Antigen gamma Chain Active Protein | CD74 active protein

Recombinant Mouse HLA Class II Histocompatibility Antigen gamma Chain Protein

CATALOG #
AAA174708

HOST
Human Cells

PRODUCT SYNONYMS

HLA Class II Histocompatibility Antigen gamma Chain; Recombinant Mouse HLA Class II Histocompatibility Antigen gamma Chain Protein; 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; Ia-gamma; INVG34;; CD74 active protein

PRODUCT SPECIFICATIONS

Host	Human Cells
Purity/Purification	>95% as determined by reducing SDS-PAGE.
Form/Format	Lyophilized from a 0.2 um filtered solution of PBS, pH7.4.
Sequence	Gln56-Leu2 15
Sequence Length	232
Species	Mouse
Endotoxin	< 1.0 EU per ug as determined by the LAL method.
Fusion Tag	C-6His
Activity	Measured by its binding ability in a functional ELISA. Immobilized human CD74 at 5 mug/ml (100 mul/well) can bind biotinylated human CTSL1 with a linear range of 3.2-400 ng/ml.
Reconstitution	We recommend that the vial be centrifuged to opening to bring the contents to the bottom. Do not mix by vortex. It is recommended that sterile water(200ul) be added to the vial to prepare a stock solution of 0.25mg/mL. Concentration is measured by UV-Vis.
Preparation and Storage	Ships on blue ice. Lyophilized proteins are stable for up to 12 months when stored at -20 to -80 degree C. Reconstituted protein solution can be stored at 4-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months.

ADDITIONAL INFORMATION

Related Product Information for CD74 active protein

Protein Construction: 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.

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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	10835071
NCBI GeneID	972
NCBI Accession #	NP_004346.1
NCBI GenBank Nucleotide #	NP_004346.1
UniProt Accession #	P04441-2; P04233
Molecular Weight	Molecular Mass: 19.4kDa Actual Protein Molecular Mass: 25-30kDa
NCBI Official Full Name	HLA class II histocompatibility antigen gamma chain isoform b
NCBI Official Synonym Full Names	CD74 molecule
NCBI Official Symbol	CD74
NCBI Official Synonym Symbols	II; p33; DHLAG; HLADG; Ia-GAMMA
NCBI Protein Information	HLA class II histocompatibility antigen gamma chain
UniProt Protein Name	HLA class II histocompatibility antigen gamma chain
UniProt Gene Name	CD74
UniProt Synonym Gene Names	DHLAG; li
UniProt Entry Name	HG2A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-cells-active-protein/hla-class-ii-histocompatibility-antigen-gamma-chain/174708>