

CD74 Protein, Human (HEK293, His)

Cat. No.:	HY-P72931
Synonyms:	HLA class II histocompatibility antigen gamma chain; CD74; CLIP; DHLAG
Species:	Human
Source:	HEK293
Accession:	NP_004346.1 (Q73-M232)
Gene ID:	792
Molecular Weight:	30-40 kDa

PROPERTIES

AA Sequence	<p> Q Q Q G R L D K L T V T S Q N L Q L E N L R M K L P K P P K P V S K M R M A T P L L M Q A L P M G A L P Q G P M Q N A T K Y G N M T E D H V M H L L Q N A D P L K V Y P P L K G S F P E N L R H L K N T M E T I D W K V F E S W M H H W L L F E M S R H S L E Q K P T D A P P K E S L E L E D P S S G L G V T K Q D L G P V P M </p>
Biological Activity	Immobilized Human CD74 at 0.5 µg/mL (100 µl/Well) on the plate. Dose response curve for Anti-CD74 Antibody, hFc Tag with the EC ₅₀ of 8.9 ng/mL determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The CD74 Protein plays a crucial role as an associate of class II major histocompatibility complex (MHC), functioning as a vital chaperone in the regulation of antigen presentation for immune response. Additionally, it serves as a cell surface receptor for the cytokine macrophage migration inhibitory factor (MIF), initiating survival pathways and cell proliferation upon binding. Notably, CD74 interacts with amyloid precursor protein (APP) and acts to suppress the production of amyloid beta (Aβeta), implicating its potential role in neuroprotective mechanisms. The gene exhibits broad expression, with
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significant levels detected in spleen (RPKM 1835.3), lymph node (RPKM 1421.7), and 24 other tissues, highlighting its involvement in diverse immune and cellular processes across various organs.

Caution: Product has not been fully validated for medical applications. For research use only.

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