

AR50928PU-S**Human CD74 (73-232, His-tag) - Purified****Alternate names:**

DHLAG, HLA class II histocompatibility antigen gamma chain, HLA-DR antigens-associated invariant chain, Ia antigen-associated invariant chain, p33

Quantity:

0.1 mg

Concentration:

0.5 mg/ml (determined by Bradford assay)

Background:

HLA class II histocompatibility antigen gamma chain isoform b, also known as CD74, is a transmembrane protein which, on antigen presenting cells, is the invariant chain that chaperones MHC class II dimers from the endoplasmic reticulum to the cell surface. CD74 is expressed by cells of both T lymphocyte and B lymphocyte lineages. It is upregulated in several cancers and is also expressed by nonimmune cells during inflammation.

Uniprot ID:

[P04233](#)

NCBI:

[NP_004346](#)

GeneID:

[972](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 30% glycerol, 1mM DTT

Description:

Recombinant human CD74 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHHHH SSGLVPRGSH MGSQQQGRLD KLTVTSQNLQ LENLRMKLPK PPKPVSKMRM
ATPLLMQALP MGALPQGPMQ NATKYGNMTE DHVMHLLQNA DPLKVYPPLK GSFPENLRHL
KNTMETIDWK VFESWMHHWL LFEMSRHSLE QKPTDAPPKE SLELEDPSSG LGVTKQDLGP VPM

Molecular weight: 20.6 kDa (183aa) confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:

1. Wilson KM, Labeta MO, Pawelec G, Fernandez N. Cell-surface expression of human histocompatibility leucocyte antigen (HLA) class II-associated invariant chain (CD74) does not always correlate with cell-surface expression of HLA class II molecules. *Immunology*. 1993 Jun;79(2):331-5. PubMed PMID: 8344710.
2. Henne C, Schwenk F, Koch N, Möller P. Surface expression of the invariant chain (CD74) is independent of concomitant expression of major histocompatibility complex class II antigens. *Immunology*. 1995 Feb;84(2):177-82. PubMed PMID: 7750992.

Pictures:

