

# Product datasheet

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## ARG83238 Human CD74 ELISA Kit

Package: 96 wells Store at: 4°C

#### Summary

Product Description ARG83238 Human CD74 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Cd74

in Serum, Plasma and Cell culture supernatants.

Tested Reactivity Hu

Tested Application ELISA

Specificity There is no detectable cross-reactivity with other relevant proteins.

Target Name CD74

Conjugation HRP

Conjugation Note Substrate: TMB and read at 450 nm.

Sensitivity 15 pg/ml

Detection Range 156 pg/ml - 10,000 pg/ml

Sample Type Serum, Plasma and Cell culture supernatants

Precision Intra-Assay CV: 5.5%

Inter-Assay CV: 6.5%

Alternate Names DHLAG; Ii; CD antigen CD74; II; HLA-DR antigens-associated invariant chain; Ia-GAMMA; Ia antigen-

associated invariant chain; HLA class II histocompatibility antigen gamma chain; p33; HLADG

## **Application Instructions**

Assay Time ~ 5 hours

## **Properties**

Form 96 well

Storage instruction Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test

reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual

for detail temperatures of the components.

Note For laboratory research only, not for drug, diagnostic or other use.

#### Bioinformation

Gene Symbol CD74

Gene Full Name CD74 molecule, major histocompatibility complex, class II invariant chain

Background The protein encoded by this gene associates with class II major histocompatibility complex (MHC) and is

an important chaperone that regulates antigen presentation for immune response. It also serves as cell surface receptor for the cytokine macrophage migration inhibitory factor (MIF) which, when bound to the encoded protein, initiates survival pathways and cell proliferation. This protein also interacts with amyloid precursor protein (APP) and suppresses the production of amyloid beta (Abeta). Multiple alternatively spliced transcript variants encoding different isoforms have been identified. [provided by

www.arigobio.com argo.nuts about antibodies 1/2

RefSeq, Aug 2011]

Function 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 the endosomal/lysosomal system where the antigen processing and binding of antigenic peptides to MHC class II takes place. Serves as cell surface receptor for the cytokine MIF.

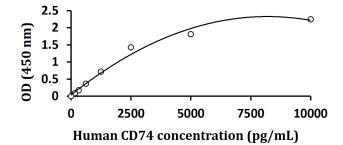
[UniProt]

Research Area Immune System antibody

PTM N- and O-glycosylated. O-glycosylated with core 1 or possibly core 8 glycans.

Cellular Localization Cell membrane

## **Images**



#### ARG83238 Human CD74 ELISA Kit standard curve image

ARG83238 Human CD74 ELISA Kit results of a typical standard run with optical density reading at 450 nm.