

Human Cluster of Differentiation 74 ELISA Kit | CD74 elisa kit

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CATALOG #
AAA94539

REACTIVITY
Human

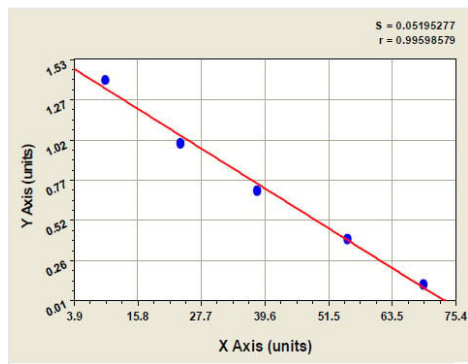
PRODUCT SYNONYMS

Cluster of Differentiation 74; Human Cluster of Differentiation 74 ELISA Kit; CD74 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	2.5-50ng/mL
Sensitivity	1.0ng/mL
Intended Uses	This CD74 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human CD74. This ELISA kit for research use only, not for therapeutic applications!
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CD74 elisa kit

Principle of the assay: CD74 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-CD74 antibody and an CD74-HRP conjugate. The assay sample and buffer are incubated together with CD74-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the CD74 concentration since CD74 from samples and CD74-HRP conjugate compete for the anti-CD74 antibody binding site. Since the number of sites is limited, as more sites are occupied by CD74 from the sample, fewer sites are left to bind CD74-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CD74 concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	119582135
NCBI GeneID	972
Molecular Weight	18,328 Da
NCBI Official Full Name	CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated), isoform CRA_c
NCBI Official Synonym Full Names	CD74 molecule, major histocompatibility complex, class II invariant chain
NCBI Official Symbol	CD74
NCBI Official Synonym Symbols	II; DHLAG; HLADG; Ia-GAMMA
NCBI Protein Information	HLA class II histocompatibility antigen gamma chain; p33; HLA-DR-gamma; MHC HLA-DR gamma chain; Ia-associated invariant chain; gamma chain of class II antigens; HLA-DR antigens-associated invariant chain; CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated)
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.