

Product datasheet

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ARG81917 Mouse CD44 ELISA Kit

Package: 96 wells Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81917-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81917-002	Standard	2 X 20 ng/vial	4°C
ARG81917-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81917-004	Antibody conjugate concentrate (100X)	1 vial (100 μl)	4°C
ARG81917-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81917-006	HRP-Streptavidin concentrate (100X)	1 vial (100 μl)	4°C
ARG81917-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81917-008	25X Wash buffer	20 ml	4°C
ARG81917-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81917-010	STOP solution	10 ml (Ready to use)	4°C
ARG81917-011	Plate sealer	4 strips	Room temperature

Summary

Sample Type

Standard Range Sample Volume

Product Description	ARG81917 Mouse CD44 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse CD44 in serum, plasma (heparin, EDTA) and cell culture supernatants.	
Tested Reactivity	Ms	
Tested Application	ELISA	
Specificity	There is no detectable cross-reactivity with other relevant proteins.	
Target Name	CD44	
Conjugation	HRP	
Conjugation Note	Substrate: TMB and read at 450 nm.	
Sensitivity	156 pg/ml	

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Serum, plasma (heparin, EDTA) and cell culture supernatants.

312 - 20000 pg/ml

100 μΙ

Precision Intra-Assay CV: 7.0%; Inter-Assay CV: 8.4%

Alternate Names MDU2; MDU3; GP90 lymphocyte homing/adhesion receptor; Hermes antigen; Extracellular matrix

receptor III; PGP-I; Epican; CDW44; Phagocytic glycoprotein 1; Pgp1; HUTCH-I; MC56; Hyaluronate receptor; CD antigen CD44; Heparan sulfate proteoglycan; CD44 antigen; LHR; IN; HCELL; Phagocytic

glycoprotein I; PGP-1; CSPG8; MIC4; ECMR-III; CDw44

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 CD44

Gene Full Name CD44 molecule (Indian blood group)

Background The protein encoded by this gene is a cell-surface glycoprotein involved in cell-cell interactions, cell

adhesion and migration. It is a receptor for hyaluronic acid (HA) and can also interact with other ligands, such as osteopontin, collagens, and matrix metalloproteinases (MMPs). This protein participates in a wide variety of cellular functions including lymphocyte activation, recirculation and homing, hematopoiesis, and tumor metastasis. Transcripts for this gene undergo complex alternative splicing that results in many functionally distinct isoforms, however, the full length nature of some of these variants has not been determined. Alternative splicing is the basis for the structural and functional diversity of this protein, and may be related to tumor metastasis. [provided by RefSeq, Jul

2008]

Function Receptor for hyaluronic acid (HA). Mediates cell-cell and cell-matrix interactions through its affinity for

HA, and possibly also through its affinity for other ligands such as osteopontin, collagens, and matrix metalloproteinases (MMPs). Adhesion with HA plays an important role in cell migration, tumor growth and progression. In cancer cells, may play an important role in invadopodia formation. Also involved in lymphocyte activation, recirculation and homing, and in hematopoiesis. Altered expression or dysfunction causes numerous pathogenic phenotypes. Great protein heterogeneity due to numerous

alternative splicing and post-translational modification events. [UniProt]

Highlight Related products:

<u>CD44 antibodies;</u> <u>CD44 ELISA Kits;</u> <u>CD44 Duos / Panels;</u>

Related news:

Detecting MMPs and their non-ECM substrates

New ELISA data calculation tool: Simplify the ELISA analysis by GainData

PTM Proteolytically cleaved in the extracellular matrix by specific proteinases (possibly MMPs) in several cell

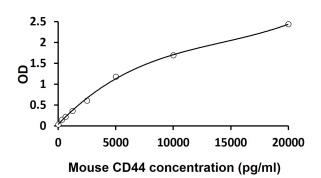
lines and tumors.

 $N- and \ O-glycosylated. \ O-glycosylation \ contains \ more-or-less-sulfated \ chondroitin \ sulfate \ glycans, \\ whose \ number \ may \ affect \ the \ accessibility \ of \ specific \ protein as es \ to \ their \ cleavage \ site(s). \ It \ is$

uncertain if O-glycosylation occurs on Thr-637 or Thr-638.

 $Phosphorylated; \ activation \ of \ PKC \ results \ in \ the \ dephosphorylation \ of \ Ser-706 \ (constitutive$

phosphorylation site), and the phosphorylation of Ser-672. [UniProt]



ARG81917 Mouse CD44 ELISA Kit standard curve image

ARG81917 Mouse CD44 ELISA Kit results of a typical standard run with optical density reading at 450 nm.