ARG81712
Mouse CD26 / DPP4 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81712-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81712-002	Standard	2 X 10 ng/vial	4°C
ARG81712-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81712-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81712-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81712-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81712-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81712-008	25X Wash buffer	20 ml	4°C
ARG81712-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81712-010	STOP solution	10 ml (Ready to use)	4°C
ARG81712-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81712 Mouse CD26 / DPP4 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse CD26 / DPP4 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	CD26 / DPP4
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	31.25 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	62.5 - 4000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 6.5%; Inter-Assay CV: 7.2%
Alternate Names	T-cell activation antigen CD26; ADCP2; ADCP-2; DPP IV; Adenosine deaminase complexing protein 2; CD26; EC 3.4.14.5; ADABP; Dipeptidyl peptidase IV soluble form; Dipeptidyl peptidase IV; Dipeptidyl peptidase 4; Dipeptidyl peptidase IV membrane form; TP103; DPPIV; CD antigen CD26

Application Instructions

Assay Time	~ 5 hours

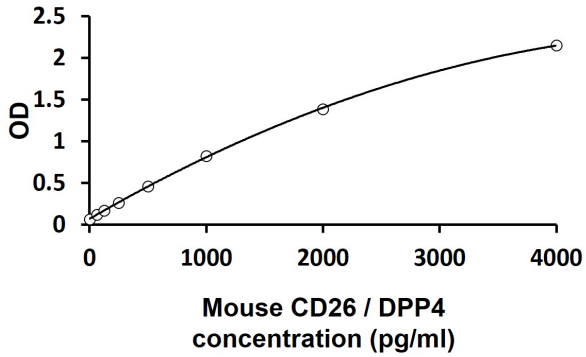
Properties

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	DPP4
Gene Full Name	dipeptidyl-peptidase 4
Background	The protein encoded by this gene is identical to adenosine deaminase complexing protein-2, and to the T-cell activation antigen CD26. It is an intrinsic membrane glycoprotein and a serine exopeptidase that cleaves X-proline dipeptides from the N-terminus of polypeptides. [provided by RefSeq, Jul 2008]
Function	Cell surface glycoprotein receptor involved in the costimulatory signal essential for T-cell receptor (TCR)-mediated T-cell activation. Acts as a positive regulator of T-cell coactivation, by binding at least ADA, CAV1, IGF2R, and PTPRC. Its binding to CAV1 and CARD11 induces T-cell proliferation and NF-kappa-B activation in a T-cell receptor/CD3-dependent manner. Its interaction with ADA also regulates lymphocyte-epithelial cell adhesion. In association with FAP is involved in the pericellular proteolysis of the extracellular matrix (ECM), the migration and invasion of endothelial cells into the ECM. May be involved in the promotion of lymphatic endothelial cells adhesion, migration and tube formation. When overexpressed, enhanced cell proliferation, a process inhibited by GPC3. Acts also as a serine exopeptidase with a dipeptidyl peptidase activity that regulates various physiological processes by cleaving peptides in the circulation, including many chemokines, mitogenic growth factors, neuropeptides and peptide hormones. Removes N-terminal dipeptides sequentially from polypeptides having unsubstituted N-termini provided that the penultimate residue is proline. [UniProt]
Highlight	Related products: CD26 antibodies; CD26 ELISA Kits; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	The soluble form (Dipeptidyl peptidase 4 soluble form also named SDPP) derives from the membrane form (Dipeptidyl peptidase 4 membrane form also named MDPP) by proteolytic processing. N- and O-Glycosylated. Phosphorylated. Mannose 6-phosphate residues in the carbohydrate moiety are necessary for interaction with IGF2R in activated T-cells. Mannose 6-phosphorylation is induced during T-cell activation. [UniProt]

Images



ARG81712 Mouse CD26 / DPP4 ELISA Kit standard curve image

ARG81712 Mouse CD26 / DPP4 ELISA Kit results of a typical standard run with optical density reading at 450 nm.