ARG82378
Mouse CXADR / CAR ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82378-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82378-002	Standard	2 X 10 ng/vial	4°C
ARG82378-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82378-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82378-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82378-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82378-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82378-008	25X Wash buffer	20 ml	4°C
ARG82378-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82378-010	STOP solution	10 ml (Ready to use)	4°C
ARG82378-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82378 Mouse CXADR / CAR ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse CXADR / CAR in serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Tested Reactivity	Ms
Tested Application	ELISA
Target Name	CXADR / CAR
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	15.6 pg/ml
Sample Type	Serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Standard Range	31.2 - 2000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 5.5% Inter-Assay CV: 6.2%

Alternate Names	Coxsackievirus B-adenovirus receptor; CAR4/6; HCAR; hCAR; CAR; Coxsackievirus and adenovirus receptor; CVB3-binding protein; HCVADR

Application Instructions

Assay Time	~ 5 hours

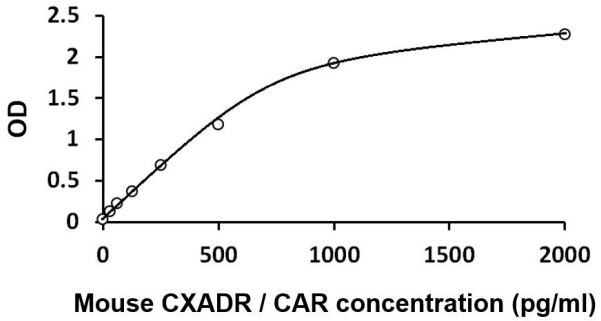
Properties

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	CXADR
Gene Full Name	coxsackie virus and adenovirus receptor
Background	The protein encoded by this gene is a type I membrane receptor for group B coxsackieviruses and subgroup C adenoviruses. Several transcript variants encoding different isoforms have been found for this gene. Pseudogenes of this gene are found on chromosomes 15, 18, and 21. [provided by RefSeq, May 2011]
Function	Component of the epithelial apical junction complex that may function as an homophilic cell adhesion molecule and is essential for tight junction integrity. Also involved in transepithelial migration of leukocytes through adhesive interactions with AMICA1/JAML a transmembrane protein of the plasma membrane of leukocytes. The interaction between both receptors also mediates the activation of gamma-delta T-cells, a subpopulation of T-cells residing in epithelia and involved in tissue homeostasis and repair. Upon epithelial CXADR-binding, AMICA1 induces downstream cell signaling events in gamma-delta T-cells through PI3-kinase and MAP kinases. It results in proliferation and production of cytokines and growth factors by T-cells that in turn stimulate epithelial tissues repair. [UniProt]
Highlight	Related products: CXADR antibodies; CXADR ELISA Kits; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	N-glycosylated. Palmitoylated on Cys-259 and/or Cys-260; required for proper localization to the plasma membrane. [UniProt]
Cellular Localization	Isoform 1: Cell membrane; Single-pass type I membrane protein. Basolateral cell membrane; Single-pass type I membrane protein. Cell junction, tight junction. Cell junction, adherens junction. Note=In epithelial cells localizes to the apical junction complex composed of tight and adherens junctions (PubMed:12297051). In airway epithelial cells localized to basolateral membrane but not to apical surface (PubMed:11316797). Isoform 3: Secreted. Isoform 4: Secreted. Isoform 5: Secreted. [UniProt]

Images



ARG82378 Mouse CXADR / CAR ELISA Kit standard curve image

ARG82378 Mouse CXADR / CAR ELISA Kit results of a typical standard run with optical density reading at 450 nm.