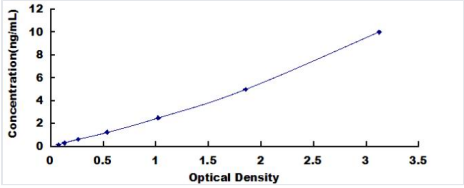
Coxsackie Virus and Adenovirus Receptor (CXADR) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Coxsackie Virus And Adenovirus Receptor (CXADR), ELISA Kit
Full Product Name	Human Coxsackie Virus And Adenovirus Receptor (CXADR) ELISA Kit
Product Gene Name	CXADR elisa kit
Product Synonym Names	CAR; HCAR; HCVADR; CVB3-binding protein; Coxsackievirus B-adenovirus receptor
Species Reactivity	Human
Assay Type	Sandwich
Samples	Tissue Homogenates, Cell Lysates or Other Biological Fluids.
Detection Range	0.156-10ng/mL
Sensitivity	0.065ng/mL
Preparation and Storage	For unopened kits: All the reagents should be kept at 4 degree C upon receipt. For opened kits: Once the kit is opened, the remaining reagents still need to be stored according to the above storage conditions. In addition, return the unused wells to the foil pouch containing the desiccant pack and reseal along entire edge of zip-seal.
Molecular Weight	35,570 Da
OMIM	602621
3D Structure	ModBase 3D Structure for P78310
RTU ELISA Kit's Advantage	The Ready-To-Use (RTU) Kits require fewer steps in setup and take less time to run. Detection Solutions are pre-diluted and total incubation time is shorter than many other ELISA Kits.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CXADR elisa kit	Test Principle: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CXADR. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to CXADR. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain CXADR, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of CXADR in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of CXADR elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CXADR purchase	MBS458706 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Coxsackie Virus And Adenovirus Receptor (CXADR) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing CXADR. The ELISA analytical biochemical technique of the MBS458706 kit is based on CXADR antibody-CXADR antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CXADR antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CXADR. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of CXADR elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CXADR. It may not necessarily be applicable to this product.

NCBI GI #	333470703
NCBI GeneID	1525
NCBI Accession #	NP_001193992.1
UniProt Primary Accession #	P78310
UniProt Secondary Accession #	O00694; Q8WWT6; Q8WWT7; Q8WWT8; Q9UKV4; B2R8V8; B7WPI3; D3YHP0
UniProt Related Accession #	P78310
GenBank Nucleotide #	NM_001207063.1
NCBI Official Full Name	coxsackievirus and adenovirus receptor isoform 2
NCBI Official Synonym Full Names	CXADR, Ig-like cell adhesion molecule
NCBI Official Symbol	CXADR
NCBI Official Synonym Symbols	CAR; HCAR; CAR4/6
UniProt Protein Name	Coxsackievirus and adenovirus receptor
UniProt Synonym Protein Names	CVB3-binding protein; Coxsackievirus B-adenovirus receptor; HCVADR
Protein Family	Coxsackievirus and adenovirus receptor
UniProt Gene Name	CXADR
UniProt Synonym Gene Names	CAR; CAR; hCAR
NCBI Protein Information	coxsackievirus and adenovirus receptor
NCBI Summary for CXADR	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]
UniProt Comments for CXADR	Component of the epithelial apical junction complex that may function as a homophilic cell adhesion molecule and is essential for tight junction integrity. Also involved in transepithelial migration of leukocytes through adhesive interactions with 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, JAML 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.
Research Articles on CXADR	**1.** The results pf this study demonstrated that CAR is expressed by mature neurons throughout the brain. In addition, we propose divergent roles for CAR in immature neurons, during neurogenesis, and at the mature synapse.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

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