

Rabbit CXADR Polyclonal Antibody | anti-CXADR antibody

CXADR Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326403	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

CXADR; Polyclonal Antibody; CXADR Antibody; 46 kD coxsackievirus and adenovirus receptor CAR protein; 46 kD coxsackievirus and adenovirus receptor protein; CAR; CAR4/6; Coxsackie virus and adenovirus receptor; Coxsackie virus B receptor; Coxsackievirus and adenovirus receptor; Coxsackievirus B adenovirus receptor; Coxsackievirus B-adenovirus receptor; CVB3 binding protein; CVB3-binding protein; Cxadr; CXAR_HUMAN; hCAR; HCVRAD; anti-CXADR antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CXADR antibody detects endogenous levels of total CXADR
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	252
Applicable Applications for anti-CXADR antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CXADR
Subcellular Location	Secreted and Cell Membrane. Cell Junction > Tight Junction. Cell Junction > Adherens Junction. Basolateral Cell Membrane. In epithelial cells localizes to the apical junction complex composed of tight and adherens junctions. In airway epithelial cells localized to basolateral membrane but not to apical surface.
Tissue Specificity	Expressed in pancreas, brain, heart, small intestine, testis, prostate and at a lower level in liver and lung. Isoform 5 is ubiquitously expressed. Isoform 3 is expressed in heart, lung and pancreas. In skeletal muscle, isoform 1 is found at the neuromuscular junction and isoform 2 is found in blood vessels. In cardiac muscle, isoform 1 and isoform 2 are found at intercalated disks. In heart expressed in subendothelial layers of the vessel wall but not in the luminal endothelial surface. Expression is elevated in hearts with dilated cardiomyopathy.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA326403 staining HEPG2 cells by ICC/IF. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600 was used as secondary antibody.



IHC (Immunohistochemisry)

AAA326403 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of HeLa whole cell lysate, using CXADR Antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA326403 staining HepG2 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CXADR antibody

Description: 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.

Function: 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.

Subunit Structure: Monomer. May form homodimer. Interacts with LNX, BAIAP1, DLG4, PRKCABP, TJP1 and CTNNB1. Interacts with MPDZ; recruits MPDZ to intercellular contact sites. Interacts with JAML (homodimeric form). Secreted isoform 3, isoform 4 and isoform 5 can interact with the extracellular domain of the receptor.

Post-translational Modifications: N-glycosylated. Palmitoylated on Cys-259 and/or Cys-260; required for proper localization to the plasma membrane.

Similarity: The Ig-like C2-type 1 domain mediates homodimerization and interaction with JAML. The PDZ-binding motif mediates interaction with MPDZ and BAIAP1.

NCBI AND UNIPROT INFORMATION

NCBI GI #	333470703
NCBI GeneID	1525
NCBI Accession #	NP_001193992.1
NCBI GenBank Nucleotide #	NM_001207063.1
UniProt Accession #	P78310; O00694; Q8WWT6; Q8WWT7; Q8WWT8; Q9UKV4; B2R8V8; B7WPI3; D3YHP0
Molecular Weight	40 kDa
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

NCBI Protein Information	coxsackievirus and adenovirus receptor
UniProt Protein Name	Coxsackievirus and adenovirus receptor
UniProt Gene Name	CXADR
UniProt Synonym Gene Names	CAR; CAR; hCAR

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.

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