

Summary

Production Name	CAR Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	CXADR
Alternative Names	CXADR; CAR; Coxsackievirus and adenovirus receptor; CAR; hCAR; CVB3-binding protein; Coxsackievirus B-adenovirus receptor; HCVADR
Gene ID	1525.0
SwissProt ID	P78310.The antiserum was produced against synthesized peptide derived from human CXADR. AA range:1-50

Application

Dilution Ratio	WB 1:500 - 1:2000. ELISA: 1:20000. Not yet tested in other applications.
Molecular Weight	40kD

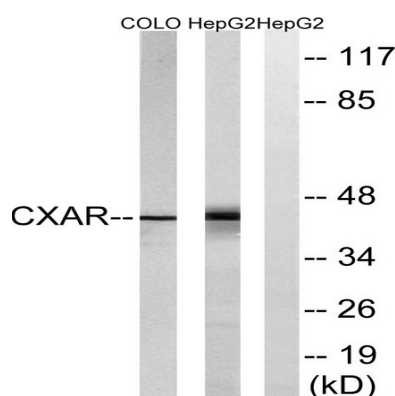
Background

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],domain:The Ig-like C2-type 1 domain probably mediates homodimerization and interaction with JAML,.,domain:The PDZ-binding motif mediates interaction with MPDZ and BAIAP1.,function:Component of the epithelial apical junction complex that is essential for the tight junction integrity. Proposed to function as a homophilic cell adhesion molecule. Recruits MPDZ to intercellular contact sites. Probably involved in transepithelial migration of polymorphonuclear leukocytes (PMN) through adhesive interactions with AMICA1/JAML located in the plasma membrane of PMN.,PTM:N-glycosylated.,PTM:Palmitoylated on Cys-259 and/or Cys-260; required for proper localization to the plasma membrane.,similarity:Contains 2 Ig-like C2-type (immunoglobulin-like) domains.,subcellular location: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.,subunit:Monomer. Probably homodimer formed by 2 molecules on adjacent cells. Interacts with LNX, MPDZ, BAIAP1, DLG4, PRKCABP, TJP1 and CTNNB1. Secreted isoform 3, isoform 4 and isoform 5 can interact with the extracellular domain of the receptor. Interacts with adenovirus subgroup A, C, D, E and F fiber proteins as well as coxsackievirus B1, B2, B3, B4, B5 and B6 capsid proteins and acts as a receptor for these viruses.,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 while 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.,

Research Area

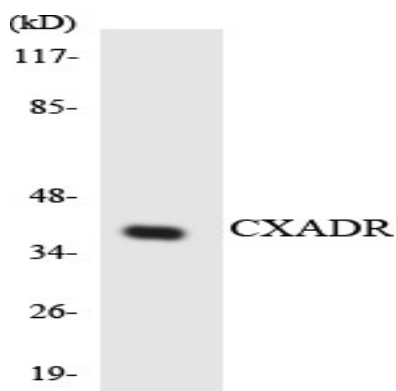
Viral myocarditis;

Image Data

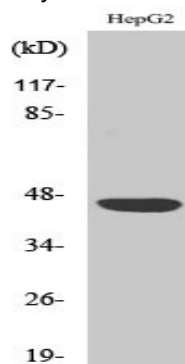


Western blot analysis of lysates from HepG2 and COLO cells, using CXADR Antibody. The lane on the right is blocked with the synthesized peptide.

Product Name: CAR Rabbit Polyclonal Antibody
Catalog #: APRab07916



Western blot analysis of the lysates from HeLa cells using CXADR antibody.



Western Blot analysis of various cells using CAR Polyclonal Antibody

Note

For research use only.