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CXADR Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP2852c

Specification

CXADR Antibody (Center) - Product Information

Application	**WB, FC,E**
Primary Accession	P78310
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit Ig**
Calculated MW	**40030**
Antigen Region	**132-161**

CXADR Antibody (Center) - Additional Information

Gene ID 1525

Other Names
Coxsackievirus and adenovirus receptor, CAR, hCAR, CVB3-binding protein, Coxsackievirus B-adenovirus receptor, HCVADR, CXADR, CAR

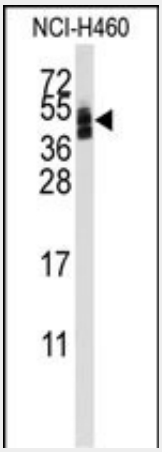
Target/Specificity
This CXADR antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 132-161 amino acids from the Central region of human CXADR.

Dilution
WB~~1:1000
FC~~1:10~50

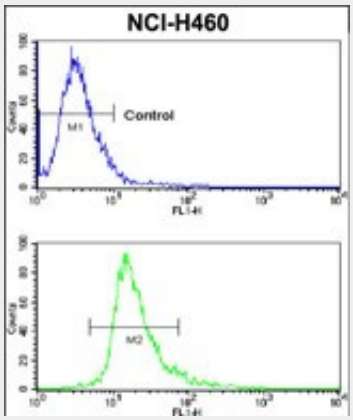
Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CXADR Antibody (Center) is for research



Western blot analysis of anti-CXADR Antibody (Center) (Cat.#AP2852c) in NCI-H460 cell line lysates (35ug/lane). CXADR(arrow) was detected using the purified Pab.



Flow cytometric analysis of NCI-H460 cells using CXADR Antibody (Center) (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

CXADR Antibody (Center) - Background

CXADR is a type I membrane receptor for group B coxsackieviruses and subgroup C adenoviruses.

use only and not for use in diagnostic or therapeutic procedures.

CXADR Antibody (Center) - Protein Information

Name CXADR

Synonyms CAR

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.

Cellular Location
[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 4]: Secreted

Tissue Location
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

CXADR Antibody (Center) - References

Tomko R.P., Xu R., Philipson L.Proc. Natl. Acad. Sci. U.S.A. 94:3352-3356(1997)
Bowles K.R., Gibson J.,Hum. Genet. 105:354-359(1999)
Fechner H., Haack A., Wang H., Wang X.Gene Ther. 6:1520-1535(1999)
Martino T.A., Petric M., Weingartl H.Virology 271:99-108(2000)
Ashbourne-Excoffon K.J.D., Hruska-Hageman A.M.J. Cell Sci. 117:4401-4409(2004)

not in the luminal endothelial surface. Expression is elevated in hearts with dilated cardiomyopathy.

CXADR Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture