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Anti-CXADR Antibody

Catalog # AP51754

Product Information

Application	WB
Primary Accession	P78310
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40030

Additional Information

Gene ID	1525
Other Names	CAR; Coxsackievirus and adenovirus receptor; CAR; hCAR; CVB3-binding protein; Coxsackievirus B-adenovirus receptor; HCVADR
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human CXADR. The exact sequence is proprietary.
Dilution	WB~~ 1:1000
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

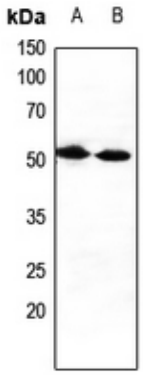
Name	CXADR
Synonyms	CAR
Function	Component of the epithelial apical junction complex that may function as a homophilic cell adhesion molecule and is essential for tight junction integrity. Also involved in transepithelial migration of leukocytes through adhesive interactions with JAML a transmembrane 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 not in the luminal endothelial surface. Expression is elevated in hearts with dilated cardiomyopathy.

References

Tomko R.P.,et al.Proc. Natl. Acad. Sci. U.S.A. 94:3352-3356(1997).
Bergelson J.M.,et al.Science 275:1320-1323(1997).
Bowles K.R.,et al.Hum. Genet. 105:354-359(1999).
He Y.,et al.Nat. Struct. Biol. 8:874-878(2001).
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Images



Western blot analysis of CXADR expression in HEK293T (A), Hela (B) whole cell lysates. (Predicted band size: 40 kD; Observed band size: 50 kD)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.