

CXADR Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP2852c**Specification**

CXADR Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [P78310](#)**CXADR Antibody (Center) Blocking Peptide - 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

The synthetic peptide sequence used to generate the antibody [AP2852c](/products/AP2852c) was selected from the Center region of human CXADR. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CXADR Antibody (Center) Blocking Peptide - 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.

CXADR Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

CXADR Antibody (Center) Blocking Peptide - Images**CXADR Antibody (Center) Blocking Peptide - Background**

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

CXADR Antibody (Center) Blocking Peptide - 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)