

**CXADR Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP2852a****Specification**

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**CXADR Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [P78310](#)**CXADR Antibody (N-term) 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 [AP2852a](/products/AP2852a) was selected from the N-term 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 (N-term) 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 (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**CXADR Antibody (N-term) Blocking Peptide - Images****CXADR Antibody (N-term) Blocking Peptide - Background**

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

**CXADR Antibody (N-term) Blocking Peptide - References**

Tomko R.P., Xu R., Philipson L. Proc. Natl. Acad. Sci. U.S.A. 94:3352-3356(1997) Bergelson J.M., Cunningham J.A., Droguett G., science 275:1320-1323(1997) Bowles K.R., Gibson J., Wu J., Shaffer L.G., Hum. Genet. 105:354-359(1999)