




## Product datasheet

# Anti-Coxsackie Adenovirus Receptor/hCAR antibody ab214354

★★★★☆ [2 Abreviews](#) [2 Images](#)

### Overview

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<b>Product name</b>	Anti-Coxsackie Adenovirus Receptor/hCAR antibody
<b>Description</b>	Rabbit polyclonal to Coxsackie Adenovirus Receptor/hCAR
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat <b>Predicted to work with:</b> Human 
<b>Immunogen</b>	Synthetic peptide within Human Coxsackie Adenovirus Receptor/hCAR aa 1-100 conjugated to keyhole limpet haemocyanin. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please <b>contact</b> our Scientific Support team to discuss your requirements. Database link: <a href="#">P78310</a>  <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a>
<b>Positive control</b>	Rat heart lysate; Mouse brain cells.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.02% Proclin 300 Constituents: 50% Glycerol (glycerin, glycerine), 1% BSA, 48.98% TBS, 1X

<b>Purity</b>	Protein A purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab214354 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>WB</b>		1/100 - 1/1000. Detects a band of approximately 38 kDa (predicted molecular weight: 40 kDa).
<b>Flow Cyt</b>	★ ★ ★ ☆ ☆ (2)	1/20 - 1/100.

## Target

**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.

**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. 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.

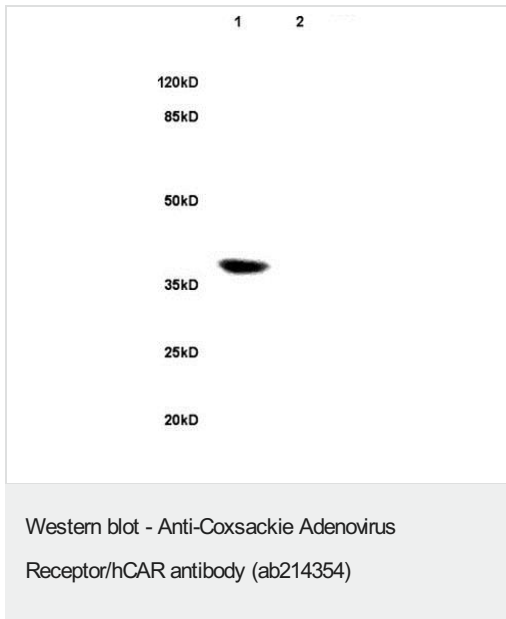
**Sequence similarities** Contains 2 Ig-like C2-type (immunoglobulin-like) domains.

**Domain** The Ig-like C2-type 1 domain probably mediates homodimerization and interaction with JAML. The PDZ-binding motif mediates interaction with MPDZ and BAIAP1.

**Post-translational modifications** N-glycosylated. Palmitoylated on Cys-259 and/or Cys-260; required for proper localization to the plasma membrane.

**Cellular localization** Secreted and Cell membrane. Cell junction > tight junction. Cell junction > adherens junction. Basolateral cell membrane. 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.

## Images



**All lanes** : Anti-Coxsackie Adenovirus Receptor/hCAR antibody (ab214354) at 1/200 dilution

**Lane 1** : Rat heart lysate

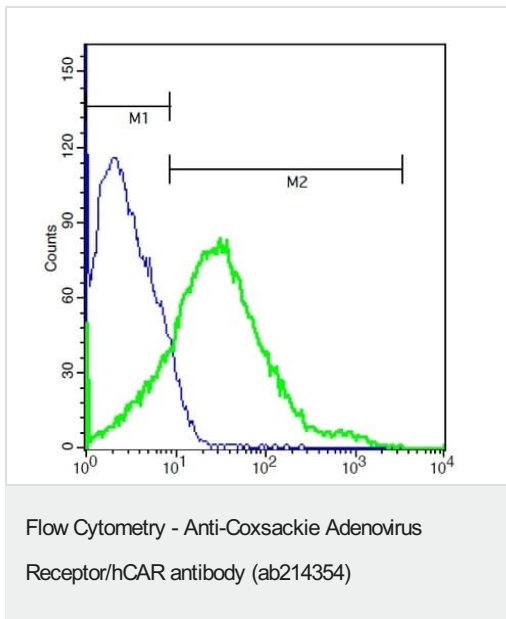
**Lane 2** : Rat embryo lysate

**Secondary**

**All lanes** : Goat Anti-Rabbit IgG Antibody (H+L), HRP at 1/3000 dilution

**Predicted band size:** 40 kDa

12% Gel.



Flow cytometric analysis of mouse brain cells labeling Coxsackie Adenovirus Receptor/hCAR with ab214354 at 1/50 dilution for 40 minutes followed by incubation with Goat Anti-Rabbit IgG FITC conjugated secondary at 1/100 (green) for 40 minutes compared to control cells (blue).

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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