

## Product datasheet

# Recombinant Human Cocksackie Adenovirus Receptor/hCAR protein ab151334

### Description

<b>Product name</b>	Recombinant Human Cocksackie Adenovirus Receptor/hCAR protein	
<b>Purity</b>	> 95 % SDS-PAGE. Purity is greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.	
<b>Endotoxin level</b>	< 1.000 Eu/μg	
<b>Expression system</b>	HEK 293 cells	
<b>Accession</b>	<b><u>P78310</u></b>	
<b>Protein length</b>	Protein fragment	
<b>Animal free</b>	No	
<b>Nature</b>	Recombinant	
<b>Species</b>	Human	
<b>Sequence</b>	LSITTPEEMIEKAKGETAYLPCKFTLSPEDQGGLDIEWLISP ADNQKVDQ VIILYSGDKMYDDYYPDLKGRVHFTSNDLKSGDASINVTNLQ LSDIGTYQ CKVKKAPGVANKKIHLVVLVKPSGARCVDGSEEIGSDFK IKCEPKEGSL PLQYEWQKLSDSQKMPTSWLAEMTSSVISVKNASSEYSG TYSCTVRNRVG SDQCLLRNLNVPPSNKAGVDHHHHHH	
<b>Predicted molecular weight</b>	25 kDa including tags	
<b>Amino acids</b>	20 to 237	
<b>Tags</b>	His tag C-Terminus	

### Specifications

Our **Abpromise guarantee** covers the use of **ab151334** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE HPLC
<b>Form</b>	Lyophilized
<b>Additional notes</b>	This product was previously labelled as Cocksackie Adenovirus Receptor

## Preparation and Storage

---

<b>Stability and Storage</b>	Shipped at 4°C. The lyophilized protein is stable for a few weeks at room temperature. Store at -20°C long term.  pH: 7.20 Constituents: 99% Phosphate Buffer, 0.88% Sodium chloride
<b>Reconstitution</b>	Dissolve the lyophilized protein in 1X PBS. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

## General Info

---

<b>Function</b>	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.
<b>Tissue specificity</b>	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.
<b>Sequence similarities</b>	Contains 2 Ig-like C2-type (immunoglobulin-like) domains.
<b>Domain</b>	The Ig-like C2-type 1 domain probably mediates homodimerization and interaction with JAML. The PDZ-binding motif mediates interaction with MPDZ and BAIAP1.
<b>Post-translational modifications</b>	N-glycosylated. Palmitoylated on Cys-259 and/or Cys-260; required for proper localization to the plasma membrane.
<b>Cellular localization</b>	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.

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

## Our Abpromise to you: Quality guaranteed and expert technical support

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish

- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

#### **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors