


Product datasheet

Anti-Coxsackie Adenovirus Receptor/hCAR antibody ab100811

★★★★★ [4 Abreviews](#) [4 References](#) [3 Images](#)

Overview

Product name	Anti-Coxsackie Adenovirus Receptor/hCAR antibody
Description	Rabbit polyclonal to Coxsackie Adenovirus Receptor/hCAR
Host species	Rabbit
Tested applications	Suitable for: WB, IP, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Rabbit, Horse, Guinea pig, Cow, Dog, Pig, Chimpanzee, Rhesus monkey, Gorilla, Orangutan, Platypus 
Immunogen	Synthetic peptide corresponding to Human Coxsackie Adenovirus Receptor/hCAR aa 300-400. NP_001329.1 Database link: P78310
Positive control	HeLa whole cell lysate (ab150035)
General notes	<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&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7 Preservative: 0.09% Sodium azide Constituent: Tris citrate/phosphate
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab100811 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
WB	★★★★★ (2)	1/2000 - 1/10000. Predicted molecular weight: 40 kDa.
IP	★★★★★ (1)	Use at 2-5 µg/mg of lysate.
IHC-P		1/500 - 1/2000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

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.

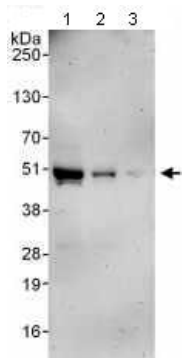
Post-translational modifications

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



Western blot - Anti-Cocksackie Adenovirus Receptor/hCAR antibody (ab100811)

All lanes : Anti-Cocksackie Adenovirus Receptor/hCAR antibody (ab100811) at 0.1 $\mu\text{g/ml}$

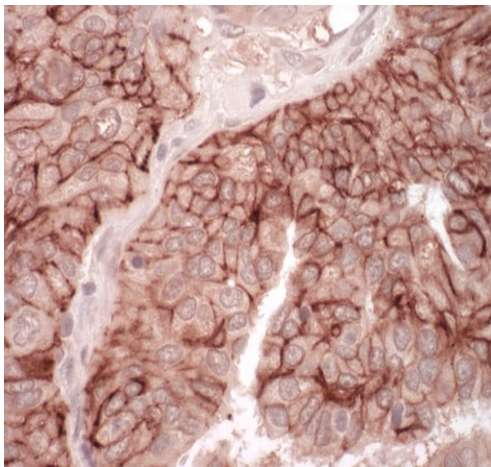
Lane 1 : HeLa Whole Cell Lysate at 50 μg

Lane 2 : HeLa Whole Cell Lysate at 15 μg

Lane 3 : HeLa Whole Cell Lysate at 5 μg

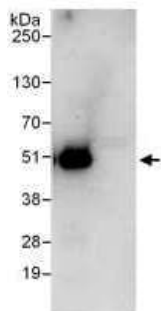
Predicted band size: 40 kDa

Exposure time: 3 minutes



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cocksackie Adenovirus Receptor/hCAR antibody (ab100811)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human ovarian carcinoma tissue labelling Cocksackie Adenovirus Receptor/hCAR with ab100811 at 1/1000 (1 $\mu\text{g/ml}$). Detection: Peroxidase Substrate.



Immunoprecipitation - Anti-Cocksackie Adenovirus Receptor/hCAR antibody (ab100811)

ab100811 at 0.4 $\mu\text{g/ml}$ staining Cocksackie Adenovirus Receptor/hCAR in HeLa cell lysate immunoprecipitated using ab100811 at 3 $\mu\text{g/mg}$ lysate (1 mg/IP; 20% of IP loaded/lane). Exposure time: 30 seconds

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