

Product datasheet

Recombinant human Cocksackie Adenovirus Receptor/hCAR protein (His tag) ab168893

1 References 1 Image

Description

|                            |   |  |  |
|----------------------------|---|--|--|
| Product name               | Recombinant human Cocksackie Adenovirus Receptor/hCAR protein (His tag)   |  |  |
| Biological activity        | Measured by the ability of immobilized ab168893 to support the adhesion of mouse neutrophils. When 50000 cells/well are added to Cocksackie Adenovirus Receptor coated plates (4 µg/mL and 100 µL/well ), approximately 20% - 50% will adhere specifically after 60 minutes at 37?. |  |  |
| Purity                     | > 95 % SDS-PAGE.  |  |  |
| Endotoxin level            | < 1.000 Eu/µg   |  |  |
| Expression system          | HEK 293 cells   |  |  |
| Accession                  | <u>P78310</u>   |  |  |
| Protein length             | Protein fragment  |  |  |
| Animal free                | No  |  |  |
| Nature                     | Recombinant   |  |  |
| Species                    | Human   |  |  |
| Sequence                   | LSITTPPEEMIEKAKGETAYLPCKFTLSPEDQGGLDIEWLISP<br>ADNQKVDQ VILYSGDKI<br>YDDYYPDLKGRVHFTSNDLKSGDASINVTLQLSDIGT<br>YQCKVKKAPGVANKKIHLVVLV<br>KPSGARC'YDGSEEIGSDFKIKCEPK<br>EGSLPLQYEWQKLSDSQKMPTSWLAEMTSSVISV<br>KNASSEYSGTYSCT VRNRVGSDQCLLRNLNVPPSNKAG                                 |  |  |
| Predicted molecular weight | 25 kDa including tags   |  |  |
| Amino acids                | 20 to 237   |  |  |
| Tags                       | His tag C-Terminus  |  |  |

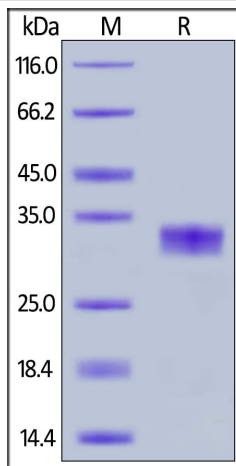
Specifications

Our **Abpromise guarantee** covers the use of **ab168893** in the following tested applications.

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

|              |                    |
|--------------|--------------------|
| Applications | Functional Studies |
|              | SDS-PAGE           |

|   |   |
|---|---|
| <b>Form</b>                             | Lyophilized   |
| <b>Additional notes</b>                 | This product was previously labelled as Cocksackie Adenovirus Receptor  |
| <b>Preparation and Storage</b>          |   |
| <b>Stability and Storage</b>            | <p>Shipped at 4°C. Store at 4°C (stable for up to 12 months). Store at -20°C or -80°C.</p> <p>pH: 7.40</p> <p>Constituent: 95% PBS</p> <p>Lyophilized from 0.22 µm filtered solution. 5-10% trehalose is commonly used for freeze drying, and after reconstitution, the trehalose is mostly about 3-5%</p> <p>This product is an active protein and may elicit a biological response in vivo, handle with caution.</p>  |
| <b>Reconstitution</b>                   | <p>It is recommended to reconstitute the lyophilized protein in sterile deionized water to a final concentration of 400 µg/ml. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Carrier protein (0.1% HSA or BSA) is strongly recommended for further dilution and long term storage</p>  |
| <b>General Info</b>                     |   |
| <b>Function</b>                         | <p>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.</p>  |
| <b>Tissue specificity</b>               | <p>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.</p> |
| <b>Sequence similarities</b>            | Contains 2 Ig-like C2-type (immunoglobulin-like) domains.   |
| <b>Domain</b>                           | <p>The Ig-like C2-type 1 domain probably mediates homodimerization and interaction with JAML. The PDZ-binding motif mediates interaction with MPDZ and BAIAP1.</p>  |
| <b>Post-translational modifications</b> | <p>N-glycosylated.</p> <p>Palmitoylated on Cys-259 and/or Cys-260; required for proper localization to the plasma membrane.</p>   |
| <b>Cellular localization</b>            | <p>Secreted and Cell membrane. Cell junction &gt; tight junction. Cell junction &gt; 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.</p>   |
| <b>Images</b>                           |   |



SDS-PAGE analysis of ab168893. Stained overnight with Coomassie Blue.

SDS-PAGE - Recombinant human Coxsackie  
Adenovirus Receptor/hCAR protein (ab168893)

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

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