

Anti-Coxsackie Adenovirus Receptor/hCAR antibody [EPR23305-44] - BSA and Azide free

Recombinant

RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR23305-44
Purification technique	Affinity purification Protein A
Concentration	1.001 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested	
Species	Human
Dilution info	-

Notes	-
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Not recommended

Species	Mouse, Rat
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Dilution info	-
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Notes	-
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Flow Cyt

Tested

Species	Human
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Dilution info	-
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Notes	-
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Not recommended

Species	Mouse, Rat
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Dilution info	-
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Notes	-
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WB

Expected

Species	Human
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Dilution info	Use at an assay dependent concentration.
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Notes	-
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Not recommended

Species	Mouse, Rat
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Dilution info	-
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Notes	-
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IHC-P

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

[See full target information CXADR](#) 

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. (Microbial infection) Acts as a receptor for adenovirus type C. (Microbial infection) Acts as a receptor for Coxsackievirus B1 to B6.
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Storage

Shipped at conditions	Blue Ice
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Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab272939 is the carrier-free version of ab272711.

Patented technology

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Conjugation ready

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility

This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

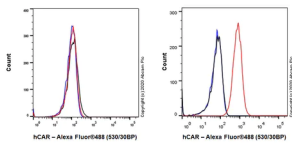
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

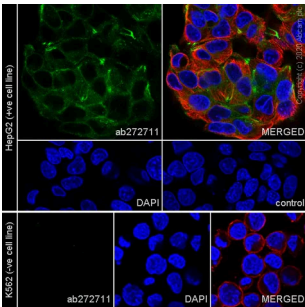
3 product images



Flow Cytometry - Anti-Coxsackie Adenovirus Receptor/hCAR antibody [EPR23305-44] - BSA and Azide free (ab272939)

Coxsackie Adenovirus Receptor/hCAR Flow Cytometry staining using rabbit Anti-Coxsackie Adenovirus Receptor/hCAR antibody

Flow cytometric analysis of K-562 (Human chronic myelogenous leukemia lymphoblast, Left) / HepG2 (Human hepatocellular carcinoma epithelial cell, Right) cells labelling Coxsackie Adenovirus Receptor/hCAR with [ab272711](#) at 1/500 dilution (0.1ug) (Red) compared with a Rabbit monoclonal IgG ([ab172730](#)) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) at 1/2000 dilution was used as the secondary antibody. **Negative control:** K-562 (PMID: 30450519) Gated on viable cells. This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab272711](#)).

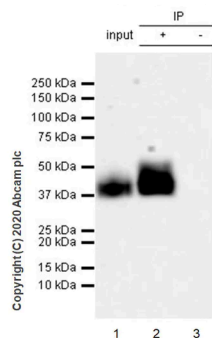


Immunocytochemistry/ Immunofluorescence - Anti-Coxsackie Adenovirus Receptor/hCAR antibody [EPR23305-44] - BSA and Azide free (ab272939)

Coxsackie Adenovirus Receptor/hCAR Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Coxsackie Adenovirus Receptor/hCAR antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized HepG2 cells labelling Coxsackie Adenovirus Receptor/hCAR with [ab272711](#) at 1/50 dilution, followed by [ab150077](#) Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 2 ug/ml dilution (Green). Confocal image showing membranous and cytoplasmic staining in HepG2 cell line. **Negative control:** K562 (PMID: 30450519) [ab195887](#) Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 488) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue). Secondary antibody only control: Secondary antibody is [ab150077](#) Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1000 2 ug/ml dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab272711](#)).



Immunoprecipitation - Anti-Coxsackie Adenovirus Receptor/hCAR antibody [EPR23305-44] - BSA and Azide free ([ab272939](#))

Coxsackie Adenovirus Receptor/hCAR was immunoprecipitated from 0.35 mg HepG2 (human hepatocellular carcinoma epithelial cell) whole cell lysate with [ab272711](#) at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using [ab272711](#) at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP)([ab131366](#)) was used at 1/5000 dilution. Lane 1: HepG2 (human hepatocellular carcinoma epithelial cell) whole cell lysate 10 ug

Lane 2: [ab272711](#) IP in HepG2 whole cell lysate

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of [ab272711](#) in HepG2 whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 102 seconds

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab272711](#)).

All lanes:

Immunoprecipitation - Anti-Coxsackie Adenovirus Receptor/hCAR antibody [EPR23305-44] ([ab272711](#))

Predicted band size: 40 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.