abcam

ab272711

Anti-Coxsackie Adenovirus Receptor/hCAR antibody [EPR23305-44]

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR23305-44
Purification technique	Affinity purification Protein A
Concentration	0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	1/30
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Human
Dilution info	1/500
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/50
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.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks

Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

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.

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

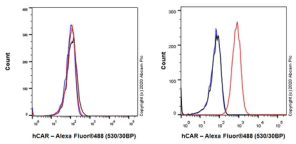
We do not recommend this combination. It is not covered by our product promise.

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.

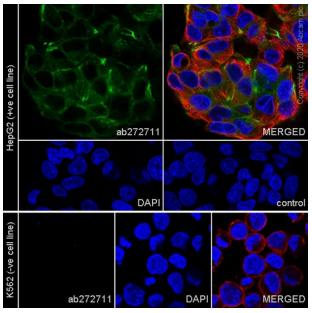
5 product images



Flow Cytometry - Anti-Coxsackie Adenovirus Receptor/hCAR antibody [EPR23305-44] (ab272711)

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

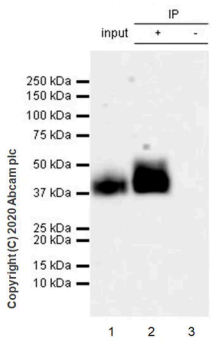
Flow cytometric analysis of K-562 (Human chronic myelogenous leukemia lymphoblast, Left) / HepG2 (Human hepatocellular carcinoma epithelial cell, Right) cells labelling Coxsackie Adenovirus Receptor/hCAR with ab272711 at 1/500 dilution (0.1ug) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) 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.



Immunocytochemistry/ Immunofluorescence - Anti-Coxsackie Adenovirus Receptor/hCAR antibody [EPR23305-44] (ab272711)

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 1/1000 dilution.



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

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

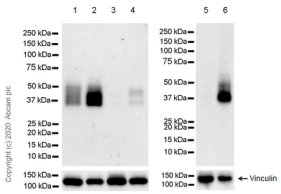
Lane 2: ab272711 IP in HepG2 whole cell lysate

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

Predicted band size: 40 kDa



Western blot - Anti-Coxsackie Adenovirus Receptor/hCAR antibody [EPR23305-44] (ab272711)

Blocking and diluting buffer and concentration: 5% NFDM/TBST
The expression profile observed is consistent with what has been described in the literature, differently mobilized bands of coxsackie adenovirus receptor are attributed to different levels of glycosylation and the presence of isoforms. (PMID: 28074864, 11734628)

Negative control: PC-3 (PMID: 28074864) and K-562 (PMID: 30450519).

This blot was developed using a higher sensitivity ECL substrate.

Exposure time: 3 minutes

All lanes:
Western blot - Anti-Coxsackie Adenovirus Receptor/hCAR antibody [EPR23305-44] (ab272711) at 1/1000 dilution

Lane 1:
LoVo (human colorectal adenocarcinoma epithelial cell) whole cell lysate at 20 µg

Lane 2:
HepG2 (human hepatocellular carcinoma epithelial cell) whole cell lysate at 20 µg

Lane 3:
PC-3 (human prostate adenocarcinoma epithelial cell) whole cell lysate at 20 µg

Lane 4:
HaCaT (human skin keratinocyte) whole cell lysate at 20 µg

Lane 5:
K-562 (human chronic myelogenous leukemia lymphoblast) whole cell lysate at 20 µg

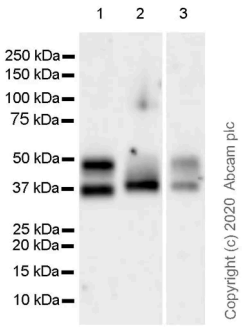
Lane 6:
BxPC-3 (human pancreas adenocarcinoma epithelial cell) whole cell lysate at 20 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ab97051) at 1/100000 dilution

Predicted band size: 40 kDa

Observed band size: 35-50 kDa



Western blot - Anti-Coxsackie Adenovirus Receptor/hCAR antibody [EPR23305-44] (ab272711)

Blocking and diluting buffer and concentration: 5% NFDM/TBST
The expression profile observed is consistent with what has been described in the literature (PMID: 28074864, 11734628)

This blot was developed using a higher sensitivity ECL substrate.

Exposure time: 125 seconds

All lanes:
Western blot - Anti-Coxsackie Adenovirus Receptor/hCAR antibody [EPR23305-44] (ab272711) at 1/1000 dilution

Lane 1:
Human brain tissue lysate at 20 µg

Lane 2:
Human liver tissue lysate at 20 µg

Lane 3:
Human heart tissue lysate at 20 µg

Secondary

All lanes:
VeriBlot for IP secondary antibody(HRP)(ab131366) at 1/1000 dilution

Predicted band size: 40 kDa

Observed band size: 35 kDa, 45 kDa

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