abcam

ab306555

Anti-CMKLR1 antibody [EPR26501-70] - 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	EPR26501-70
Purification technique	Affinity purification Protein A
Concentration	1.017 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Not recommended

Species	Human, Mouse, Rat
Dilution info	-

Notes	-

Flow Cyt

Tested

Species	Human
Dilution info	-
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

ICC/IF

Tested

Species	Mouse, Human
Dilution info	-
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-P

Not recommended

Species	Rat, Mouse, Human
Dilution info	-
Notes	-

WB

Tested

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information CMKLR1

Function	Receptor for the chemoattractant adipokine chemerin/RARRES2 and for the omega-3 fatty acid derived molecule resolvin E1. Interaction with RARRES2 initiates activation of G proteins G(i)/G(o) and beta-arrestin pathways inducing cellular responses via second messenger pathways such as intracellular calcium mobilization, phosphorylation of MAP kinases MAPK1/MAPK3 (ERK1/2), TYRO3, MAPK14/P38MAPK and PI3K leading to multifunctional effects, like reduction of immune responses, enhancing of adipogenesis and angionesis (PubMed:27716822). Resolvin E1 down-regulates cytokine production in macrophages by reducing the activation of MAPK1/3 (ERK1/2) and NF-kappa-B. Positively regulates adipogenesis and adipocyte metabolism. (Microbial infection) Acts as a coreceptor for several SIV strains (SIVMAC316, SIVMAC239, SIVMACL7E-FR and SIVSM62A), as well as a primary HIV-1 strain (92UG024-2).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

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.

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

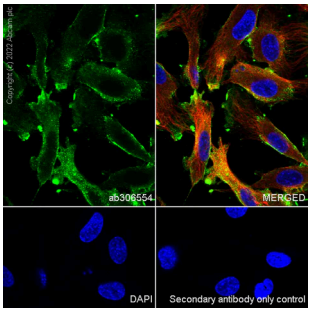
We do not recommend this combination. It is not covered by our product promise.

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.

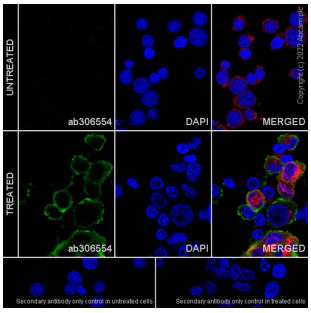
10 product images



Immunocytochemistry/ Immunofluorescence - Anti-CMKLR1 antibody [EPR26501-70] - BSA and Azide free (ab306555)

CMKLR1 Immunocytochemistry/ Immunofluorescence staining of EA.hy926 (human somatic cell hybrid endothelial) using rabbit Anti-CMKLR1 antibody

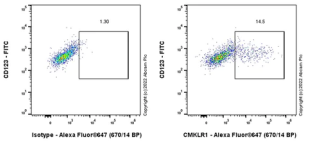
This data was developed using ab306554, the same antibody clone in a different buffer formulation. Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized EA.hy926 (human somatic cell hybrid endothelial) cells labeling CMKLR1 with ab306554 at 1/100 (5.25 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 (2 ug/ml) dilution (Green). Confocal image showing membranous and cytoplasmic staining in EA.hy926 cell line ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (2.5 ug/ml) dilution (Red). The nuclear counterstain was DAPI (Blue). Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 ug/ml) dilution.



Immunocytochemistry/ Immunofluorescence - Anti-CMKLR1 antibody [EPR26501-70] - BSA and Azide free (ab306555)

CMKLR1 Immunocytochemistry/ Immunofluorescence staining of HL-60 (human acute promyelocytic leukemia promyeloblast) using rabbit Anti-CMKLR1 antibody

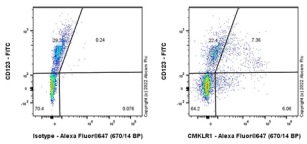
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Flow Cytometry - Anti-CMKLR1 antibody [EPR26501-70] - BSA and Azide free (ab306555)

CMKLR1 Flow Cytometry staining of Human peripheral blood mononuclear cell (PBMC) treated with 100ng/ml GM-CSF and 50ng/ml IL-4 for 3 days using rabbit Anti-CMKLR1 antibody

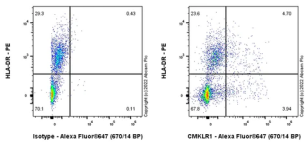
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Flow Cytometry - Anti-CMKLR1 antibody [EPR26501-70] - BSA and Azide free (ab306555)

CMKLR1 Flow Cytometry staining of Human peripheral blood mononuclear cell (PBMC) treated with 100ng/ml GM-CSF and 50ng/ml IL-4 for 3 days using rabbit Anti-CMKLR1 antibody

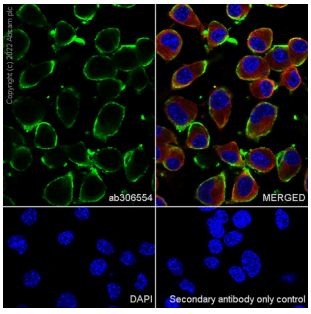
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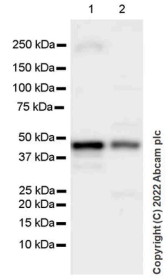
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Immunocytochemistry/ Immunofluorescence - Anti-CMKLR1 antibody [EPR26501-70] - BSA and Azide free (ab306555)

CMKLR1 Immunocytochemistry/ Immunofluorescence staining of Neuro-2a (mouse neuroblastoma neuroblast) using rabbit Anti-CMKLR1 antibody

This data was developed using ab306554, the same antibody clone in a different buffer formulation. Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized Neuro-2a (mouse neuroblastoma neuroblast) cells labeling CMKLR1 with ab306554 at 1/100 (5.25 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 (2 ug/ml) dilution (Green). Confocal image showing membranous and weak cytoplasmic staining in Neuro-2a cell line ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (2.5 ug/ml) dilution (Red). The nuclear counterstain was DAPI (Blue). Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 ug/ml) dilution.



Western blot - Anti-CMKLR1 antibody [EPR26501-70] - BSA and Azide free (ab306555)

This data was developed using ab306554, the same antibody clone in a different buffer formulation. Blocking and diluting buffer and concentration: Samples are non-boiled as boiling may cause protein aggregation. 5.5 seconds Exposure time:
All lanes:
Western blot - Anti-CMKLR1 antibody [EPR26501-70] (ab306554) at 1/1000 dilution

Lane 1:
Human fat tissue lysate 20 µg

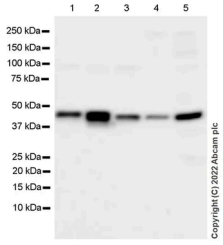
Lane 2:
Mouse white fat tissue lysate 20 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Observed band size: 42 kDa

Exposure time: 5.5s



Western blot - Anti-CMKLR1 antibody [EPR26501-70] - BSA and Azide free (ab306555)

This data was developed using ab306554, the same antibody clone in a different buffer formulation. Blocking and diluting buffer and concentration: Samples are non-boiled as boiling may cause protein aggregation. 5.5 seconds Exposure time:
All lanes:
Western blot - Anti-CMKLR1 antibody [EPR26501-70] (ab306554) at 1/1000 dilution

Lane 1:
Ea.Hy926 (human somatic cell hybrid endothelial cell) whole cell lysate 20 µg

Lane 2:
HUVEC (human umbilical vein endothelial cell) whole cell lysate 20 µg

Lane 3:
HepG2 (human hepatocellar carcinoma epithelial cell) whole cell lysate 20 µg

Lane 4:
293T (human embryonic kidney epithelial cell) whole cell lysate 20 µg

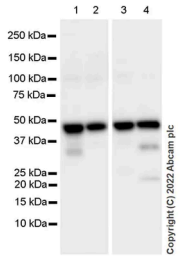
Lane 5:
Neuro-2a (mouse neuroblastoma neuroblast) whole cell lysate 20 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Observed band size: 42 kDa

Exposure time: 5.5s



Western blot - Anti-CMKLR1 antibody [EPR26501-70] - BSA and Azide free (ab306555)

CMKLR1 Western blot staining using rabbit Anti-CMKLR1 antibody

This data was developed using ab306554, the same antibody clone in a different buffer formulation. Blocking and diluting buffer and concentration: Samples are non-boiled as boiling may cause protein aggregation. 5.5 seconds Exposure time:
All lanes:
Western blot - Anti-CMKLR1 antibody [EPR26501-70] (ab306554) at 1/1000 dilution

Lane 1:
Human tonsil tissue lysate 20 µg

Lane 2:
Human placenta tissue lysate 20 µg

Lane 3:
Mouse spleen tissue lysate 20 µg

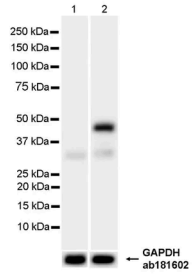
Lane 4:
Rat spleen tissue lysate 20 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Observed band size: 42 kDa

Exposure time: 5.5s



Western blot - Anti-CMKLR1 antibody [EPR26501-70] - BSA and Azide free (ab306555)

CMKLR1 Western blot staining using rabbit Anti-CMKLR1 antibody

This data was developed using ab306554, the same antibody clone in a different buffer formulation. Blocking and diluting buffer and concentration: Samples are non-boiled as boiling may cause protein aggregation. The expression of Chemokine-like receptor 1 is upregulated in response to PMA treatment (PMID: 19906641). 3 seconds Exposure time:
All lanes:
Western blot - Anti-CMKLR1 antibody [EPR26501-70] (ab306554) at 1/1000 dilution

Lane 1:
HL-60 (human acute promyelocytic leukemia promyeloblast) treated with 10 µM MG-132 for 4h whole cell lysate 20 µg

Lane 2:
HL-60 treated with /ml PMA for 72h, 10 µM MG-132 was then added for additional 4h whole cell lysate 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/50000 dilution

Observed band size: 42 kDa

Exposure time: 3s

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