abcam

ab306554

Anti-CMKLR1 antibody [EPR26501-70]

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	EPR26501-70
Purification technique	Affinity purification Protein A
Concentration	0.495 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	1/50
Notes	-

Expected

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

ICC/IF

Tested

Species	Mouse
Dilution info	1/100
Notes	-

Species	Human
Dilution info	1/100
Notes	-

Expected

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

IHC-P

Not recommended

Species	Rat
Dilution info	-

Notes	Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Species	Mouse
Dilution info	-
Notes	Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Species	Human
Dilution info	-
Notes	Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

WB

Tested

Species	Human
Dilution info	1/1000
Notes	-

Species	Mouse
Dilution info	1/1000
Notes	-

Species	Rat
Dilution info	1/1000
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	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.

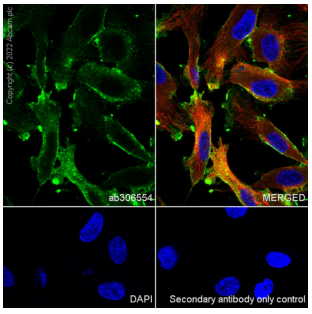
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

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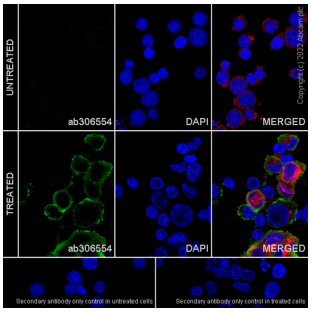
10 product images



Immunocytochemistry/ Immunofluorescence - Anti-CMKLR1 antibody [EPR26501-70] (ab306554)

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

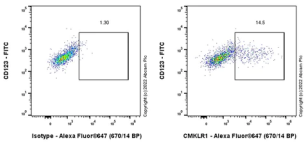
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized EA.hy926 (human somatic cell hybrid endothelial) cells labeling CMKLR1 with ab306554 at 1/100 (5.25 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 (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] (ab306554)

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

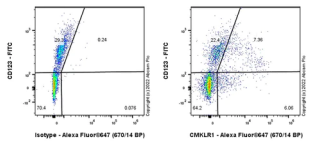
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HL-60 (human acute promyelocytic leukemia promyeloblast) cells labeling CMKLR1 with ab306554 at 1/100 (5.25 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 (2 ug/ml) dilution (Green). Confocal image showing membranous and cytoplasmic staining in HL-60 cells treated with PMA (50 ng/ml) for 72 h, then add MG-132 (10 uM) for 4 h, and no staining under only MG-132 (10 uM) for 4 h treatment. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). 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.



Flow Cytometry - Anti-CMKLR1 antibody [EPR26501-70] (ab306554)

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

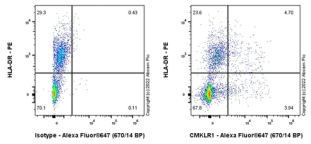
Flow cytometric analysis of Human peripheral blood mononuclear cell (PBMC) treated with 100ng/ml GM-CSF and 50ng/ml IL-4 for 3 days cells labelling CMKLR1 with ab306554 at 1/50 dilution (1ug)/ Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). Goat anti-Rabbit IgG (Alexa Fluor® 647, ab150083) at 1/2000 dilution was used as the secondary antibody. Gated on viable HLA-DR and CD123 double positive cells.Cells were stained with rabbit IgG or ab306554. Then stained with anti-CD123 conjugated to FITC and anti-HLA-DR conjugated to PE.



Flow Cytometry - Anti-CMKLR1 antibody [EPR26501-70] (ab306554)

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

Flow cytometric analysis of Human peripheral blood mononuclear cell (PBMC) treated with 100ng/ml GM-CSF and 50ng/ml IL-4 for 3 days cells labelling CMKLR1 with ab306554 at 1/50 dilution (1ug)/ Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). Goat anti-Rabbit IgG (Alexa Fluor® 647, ab150083) at 1/2000 dilution was used as the secondary antibody. Gated on viable cells. Cells were stained with rabbit IgG or ab306554. Then stained with anti-CD123 conjugated to FITC.

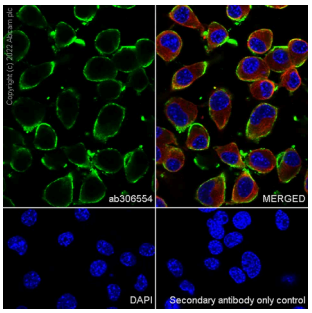


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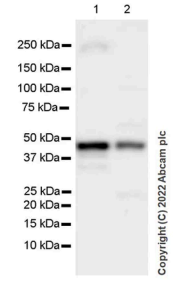
an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). Goat anti-Rabbit IgG (Alexa Fluor® 647, ab150083) at 1/2000 dilution was used as the secondary antibody. Gated on viable cells. Cells were stained with rabbit IgG or ab306554. Then stained with anti-HLA-DR conjugated to PE.



Immunocytochemistry/ Immunofluorescence - Anti-CMKLR1 antibody [EPR26501-70] (ab306554)

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

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] (ab306554)

Blocking and diluting buffer and concentration: 5% NFDM/TBST Samples are non-boiled as boiling may cause protein aggregation. Exposure time: 5.5 seconds
All lanes:
Western blot - Anti-CMKLR1 antibody [EPR26501-70] (ab306554) at 1/1000 dilution

Lane 1:
Human fat tissue lysate 20 µg

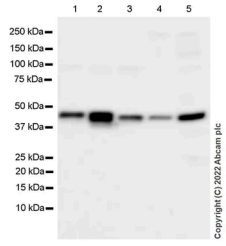
Lane 2:
Mouse white fat tissue lysate 20 µg

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] (ab306554)

Blocking and diluting buffer and concentration: 5% NFDM/TBST Samples are non-boiled as boiling may cause protein aggregation. Exposure time: 5.5 seconds
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

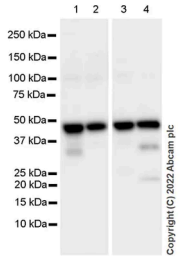
Lane 5:
Neuro-2a (mouse neuroblastoma neuroblast) whole cell lysate 20 µg

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] (ab306554)

CMKLR1 Western blot staining using rabbit Anti-CMKLR1 antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST Samples are non-boiled as boiling may cause protein aggregation. Exposure time: 5.5 seconds
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

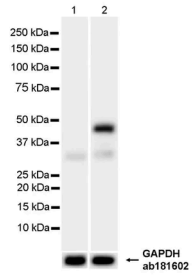
Lane 4:
Rat spleen tissue lysate 20 µg

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] (ab306554)

CMKLR1 Western blot staining using rabbit Anti-CMKLR1 antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST 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). Exposure time: 3 seconds
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'.