abcam

ab323648

Anti-EMR1/ADGRE1 (F4/80) antibody [RM1302]

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	Multiclonal
Immunogens	The exact immunogen used to generate this antibody is proprietary information.
Clone number	RM1302
Purification technique	Affinity purification Protein A
Specificity	Unsuitable for human FC, human IP and rat IP.
Concentration	0.489 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Human
Dilution info	1/1000
Notes	-

Species	Mouse
Dilution info	1/1000
Notes	-

Species	Rat
Dilution info	1/1000
Notes	-

IP

Tested

Species	Mouse
Dilution info	1/30
Notes	-

Not recommended

Species	Human, Rat
Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Mouse
Dilution info	1/50
Notes	-

Expected

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

Not recommended

Species	Human
Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	1/500
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Mouse
Dilution info	1/2000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Rat
Dilution info	1/2000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target data

See full target information Adgre1

Function	Orphan receptor involved in cell adhesion and probably in cell-cell interactions specifically involving cells of the immune system. May play a role in regulatory T-cells (Treg) development.

Storage

Shipped at conditions	Blue Ice
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 recombinant multiclonals?
Recombinant multiclonals are a mixture of recombinant antibodies co-expressed from a library of heavy and light chains. They offer several advantages including:

- The sensitivity of polyclonal antibodies by recognising multiple epitopes
- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

View our range of recombinant multiclonal 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

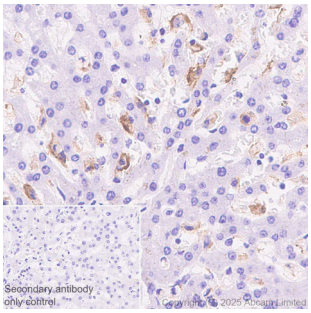
We do not recommend this combination. It is not covered by our product promise.

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.

14 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EMR1/ADGRE1 (F4/80) antibody [RM1302] (ab323648)

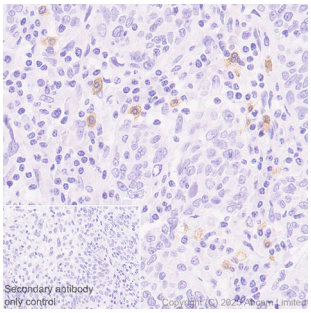
Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling EMR1/ADGRE1 (F4/80) with ab323648 at 1/500 (0.946 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on Kupffer cells of human liver.
The section was incubated with ab323648 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EMR1/ADGRE1 (F4/80) antibody [RM1302] (ab323648)

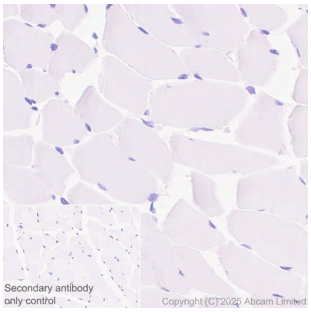
Immunohistochemical analysis of paraffin-embedded Human lung cancer tissue labeling EMR1/ADGRE1 (F4/80) with ab323648 at 1/500 (0.946 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on immune cells of human lung cancer.
The section was incubated with ab323648 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EMR1/ADGRE1 (F4/80) antibody [RM1302] (ab323648)

EMR1/ADGRE1 (F4/80) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human skeletal muscle tissue using rabbit Anti-EMR1/ADGRE1 (F4/80) antibody

Immunohistochemical analysis of paraffin-embedded Human skeletal muscle tissue labeling EMR1/ADGRE1 (F4/80) with ab323648 at 1/500 (0.946 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

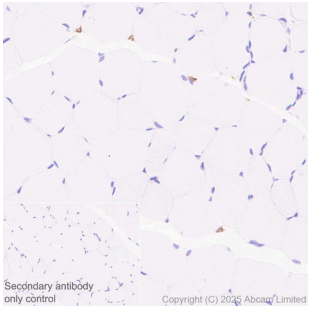
Low expression: no staining on human skeletal muscle.
The section was incubated with ab323648 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins

---



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EMR1/ADGRE1 (F4/80) antibody [RM1302] (ab323648)

Immunohistochemical analysis of paraffin-embedded Mouse skeletal muscle tissue labeling EMR1/ADGRE1 (F4/80) with ab323648 at 1/2000 (0.237 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

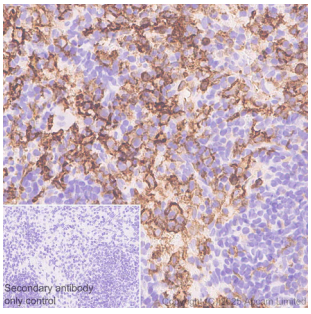
Low expression: positive staining on immune cells of mouse skeletal muscle.
The section was incubated with ab323648 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins

---



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EMR1/ADGRE1 (F4/80) antibody [RM1302] (ab323648)

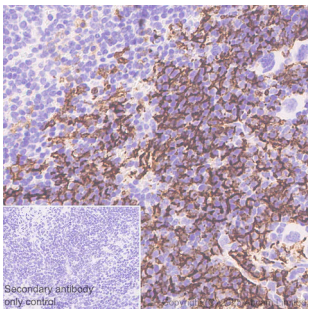
Immunohistochemical analysis of paraffin-embedded Rat spleen tissue labeling EMR1/ADGRE1 (F4/80) with ab323648 at 1/2000 (0.237 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on rat spleen.
The section was incubated with ab323648 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EMR1/ADGRE1 (F4/80) antibody [RM1302] (ab323648)

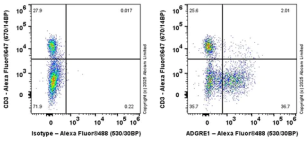
Immunohistochemical analysis of paraffin-embedded Mouse spleen tissue labeling EMR1/ADGRE1 (F4/80) with ab323648 at 1/2000 (0.237 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on mouse spleen.
The section was incubated with ab323648 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins

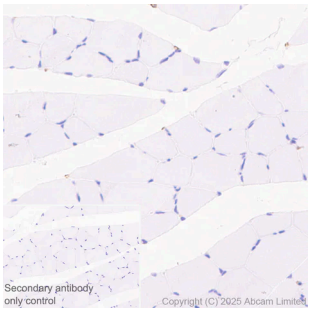


Flow Cytometry - Anti-EMR1/ADGRE1 (F4/80) antibody [RM1302] (ab323648)

Flow cytometric analysis of mouse PBMC cells labelling EMR1/ADGRE1 (F4/80) with ab323648 at 1/50 dilution (1ug) / Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control.

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.

mouse PBMC are co-stained with CD11b conjugated BV510.
Gated on viable cell.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EMR1/ADGRE1 (F4/80) antibody [RM1302] (ab323648)

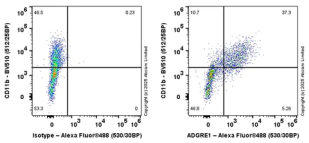
Immunohistochemical analysis of paraffin-embedded Rat skeletal muscle tissue labeling EMR1/ADGRE1 (F4/80) with ab323648 at 1/2000 (0.237 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Low expression: positive staining on immune cells of rat skeletal muscle.
The section was incubated with ab323648 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins

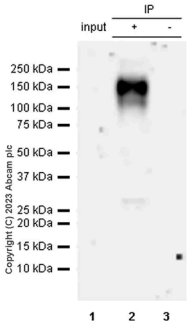


Flow Cytometry - Anti-EMR1/ADGRE1 (F4/80) antibody [RM1302] (ab323648)

Flow cytometric analysis of mouse PBMC cells labelling EMR1/ADGRE1 (F4/80) with ab323648 at 1/50 dilution (1ug) / Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control.

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.

mouse PBMC are co-stained with CD3 conjugated Alexa Fluor®647.
Gated on viable cell.



Immunoprecipitation - Anti-EMR1/ADGRE1 (F4/80) antibody [RM1302] (ab323648)

EMR1/ADGRE1 (F4/80) was immunoprecipitated from 0.35 mg Mouse lymph node tissue lysate with ab323648 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab323648 at 1/1000 dilution.

Blocking and dilution buffer and concentration: 5% NFDM/TBST

All lanes:
Immunoprecipitation - Anti-EMR1/ADGRE1 (F4/80) antibody [RM1302] (ab323648) at 1/1000 dilution

Lane 1:
Mouse lymph node tissue lysate at 10 µg

Lane 2:
ab323648 at 1/30 IP in Mouse lymph node tissue lysate at 10 µg

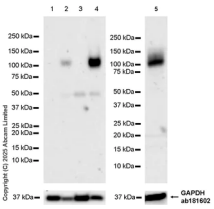
Lane 3:
Rabbit monoclonal IgG (ab172730) instead of ab323648 in Mouse lymph node tissue lysate at 10 µg

Secondary

All lanes:
Immunoprecipitation - VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/5000 dilution

Observed band size: 90-160 kDa

Exposure time: 154s



Western blot - Anti-EMR1/ADGRE1 (F4/80) antibody [RM1302] (ab323648)

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

Low expression: cerebellum and skeletal muscle.

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

All lanes:
Western blot - Anti-EMR1/ADGRE1 (F4/80) antibody [RM1302] (ab323648) at 1/1000 dilution

Lane 1:
Human cerebellum tissue lysate at 20 µg

Lane 2:
Human liver tissue lysate at 20 µg

Lane 3:
Human skeletal muscle tissue lysate at 20 µg

Lane 4:
Human spleen tissue lysate at 20 µg

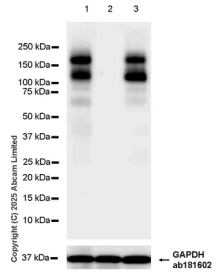
Lane 5:
Human lymph node tissue lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Observed band size: 120 kDa, 36 kDa

Exposure time: 180s



Western blot - Anti-EMR1/ADGRE1 (F4/80) antibody [RM1302] (ab323648)

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

Negative control: NIH/3T3 (PMID: 8550607).

Samples are non-boiled as boiling may cause protein aggregation.

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

All lanes:
Western blot - Anti-EMR1/ADGRE1 (F4/80) antibody [RM1302] (ab323648) at 1/1000 dilution

Lane 1:
RAW 264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) whole cell lysate at 20 µg

Lane 2:
NIH/3T3 (mouse embryonic fibroblast) whole cell lysate at 20 µg

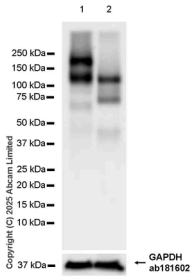
Lane 3:
J774A.1 (mouse reticulum cell sarcoma monocyte/macrophage) whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Observed band size: 90-160 kDa, 36 kDa

Exposure time: 15s



Western blot - Anti-EMR1/ADGRE1 (F4/80) antibody [RM1302] (ab323648)

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

F4/80 (ADGRE1) is a glycoprotein of approximately 120~160 kDa and detected as a 70-90 kDa band after treated with Protein Deglycosylation MIX II. (or after Protein Deglycosylation Mix II treatment) (PMID: 8550607)

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

All lanes:
Western blot - Anti-EMR1/ADGRE1 (F4/80) antibody [RM1302] (ab323648) at 1/1000 dilution

Lane 1:
Untreated RAW 264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) whole cell lysate at 15 µg

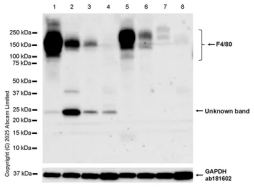
Lane 2:
RAW 264.7 lysate treated with Protein Deglycosylation Mix II at 15 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Observed band size: 70-160 kDa, 36 kDa

Exposure time: 15s



Western blot - Anti-EMR1/ADGRE1 (F4/80) antibody [RM1302] (ab323648)

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

Low expression: brain and skeletal muscle.

The identity of the lower MW band at approximately 25 kDa (in lane 1-4) is unknown.

Samples are non-boiled as boiling may cause protein aggregation.

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

All lanes:
Western blot - Anti-EMR1/ADGRE1 (F4/80) antibody [RM1302] (ab323648) at 1/1000 dilution

Lane 1:

Mouse spleen tissue lysate at 20 µg

Lane 2:
Mouse liver tissue lysate at 20 µg

Lane 3:
Mouse brain tissue lysate at 20 µg

Lane 4:
Mouse skeletal muscle tissue lysate at 20 µg

Lane 5:
Rat spleen tissue lysate at 20 µg

Lane 6:
Rat liver tissue lysate at 20 µg

Lane 7:
Rat brain tissue lysate at 20 µg

Lane 8:
Rat skeletal muscle tissue lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Observed band size: 90-160 kDa, 36 kDa

Exposure time: 180s

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