

Anti-EMR1/ADGRE1 (F4/80) antibody [EPR23225-94] - BSA and Azide free ab270798

Recombinant RabMAb

5 Images

Overview

Product name	Anti-EMR1/ADGRE1 (F4/80) antibody [EPR23225-94] - BSA and Azide free
Description	Rabbit monoclonal [EPR23225-94] to EMR1/ADGRE1 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IHC-P, ICC/IF, Flow Cyt, WB Unsuitable for: IP
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human spleen, colon and stomach lysates. IHC-P: Human gastric cancer and colon tissues. ICC/IF: HEK-293 cells transfected with myc-tagged EMR1 expression vector. Flow Cyt: HEK-293 cells transfected with myc-tagged EMR1 expression vector.
General notes	<p>ab270798 is the carrier-free version of ab254293.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit</p>

monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR23225-94
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab270798 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

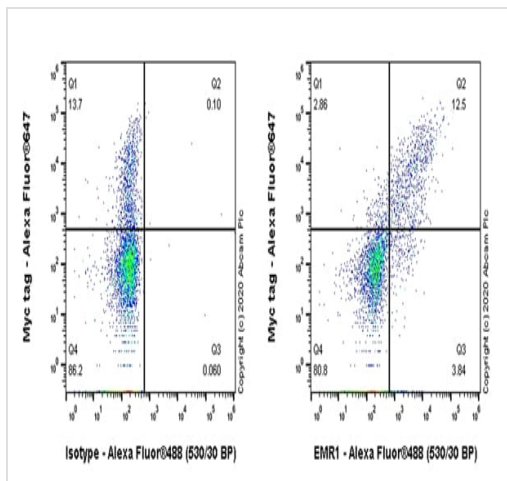
Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 100 kDa (predicted molecular weight: 97 kDa).

Application notes Is unsuitable for IP.

Target

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.
Tissue specificity	Expression is restricted to eosinophils.
Sequence similarities	Belongs to the G-protein coupled receptor 2 family. Adhesion G-protein coupled receptor (ADGR) subfamily. Contains 6 EGF-like domains. Contains 1 GPS domain.
Cellular localization	Cell membrane.

Images

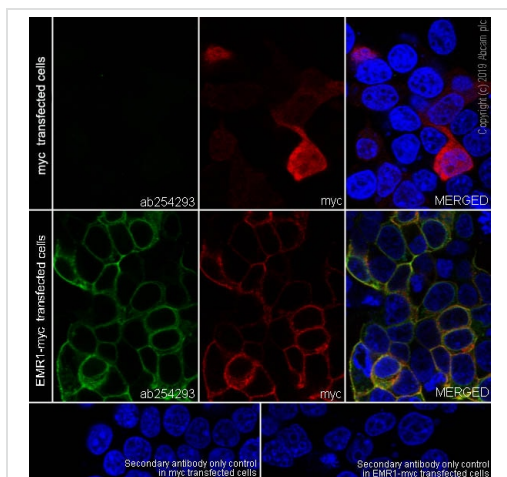


Flow Cytometry - Anti-EMR1/ADGRE1 antibody
[EPR23225-94] - BSA and Azide free (ab270798)

This data was developed using [ab254293](#), the same antibody clone in a different buffer formulation.

Flow cytometric analysis of 2% paraformaldehyde-fixed, 0.1% Tween-20 permeabilized HEK-293T (transfected with myc tagged EMR1/ADGRE1 construct) cells labelling EMR1/ADGRE1 with [ab254293](#) at 1/500 (Right) compared with a Rabbit monoclonal IgG ([ab172730](#)) (Left). A Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) at 1/2000 was used as the secondary antibody.

Cells were surface stained with isotype control ([ab172730](#)) or [ab254293](#). Then fixed with 2% PFA for 10min followed by intracellularly stained with anti-myc tag conjugated to Alexa Fluor® 647.

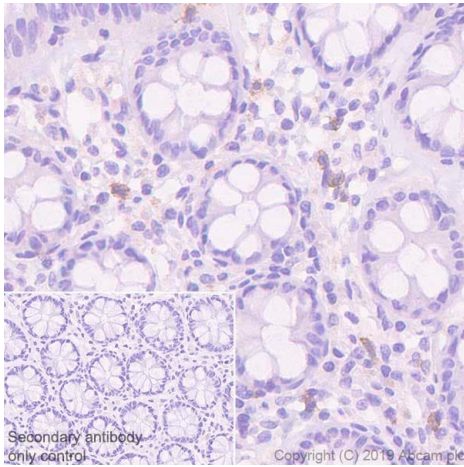


Immunocytochemistry/ Immunofluorescence - Anti-EMR1/ADGRE1 antibody [EPR23225-94] - BSA and Azide free (ab270798)

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Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized HEK-293 cells labelling EMR1/ADGRE1 with [ab254293](#) at 1/100 dilution, followed by antibody at 1/1000 dilution (Green). Confocal image showing positive staining in HEK-293 cell line transfected with myc-tagged EMR1/ADGRE1 expression vector. 2233S Myc-Tag (9B11) Mouse mAb (Alexa Fluor® 647 Conjugate) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is at 1000 dilution.



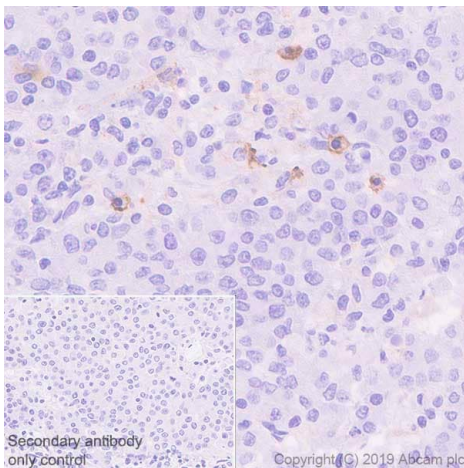
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EMR1/ADGRE1 antibody [EPR23225-94] - BSA and Azide free (ab270798)

This data was developed using [ab254293](#), the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling EMR1/ADGRE1 with [ab254293](#) at 1/16000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Positive staining in eosinophils of human colon (PMID:17823986). The section was incubated with [ab254293](#) for 10 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 Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EMR1/ADGRE1 antibody [EPR23225-94] - BSA and Azide free (ab270798)

This data was developed using [ab254293](#), the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Human gastric cancer tissue labeling EMR1/ADGRE1 with [ab254293](#) at 1/16000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Positive staining in eosinophils of human gastric cancer (PMID:17823986). The section was incubated with [ab254293](#) for 10 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 Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

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Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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