

Product datasheet

Anti-CCR2 antibody [EPR20844] (Alexa Fluor® 488) ab245896

Recombinant RabMAb

3 Images

Overview

Product name	Anti-CCR2 antibody [EPR20844] (Alexa Fluor® 488)
Description	Rabbit monoclonal [EPR20844] to CCR2 (Alexa Fluor® 488)
Host species	Rabbit
Conjugation	Alexa Fluor® 488. Ex: 495nm, Em: 519nm
Tested applications	Suitable for: ICC/IF, Flow Cyt
Species reactivity	Reacts with: Mouse
Immunogen	Synthetic peptide within Mouse CCR2 aa 1-100. The exact sequence is proprietary. Database link: P51683
Positive control	ICC/IF: Mouse CCR2 with RFP tag transfected HEK-293T cells. Flow Cyt: Splenocytes (Mouse) cells.
General notes	<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>

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

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Life Technologies Corporation, 5781 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@thermofisher.com.

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been "predicted to work with," however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. Stable for 12 months at -20°C. Store In the Dark.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 30% Glycerol, 1% BSA
Purity	Immunogen affinity purified
Clonality	Monoclonal
Clone number	EPR20844
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab245896** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

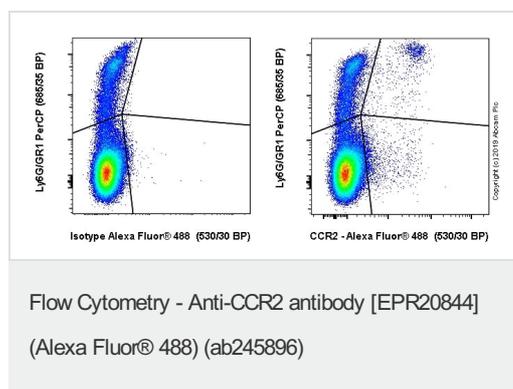
Application	Abreviews	Notes
ICC/IF		1/200. This product gave a positive signal in RFP transfected 293T fixed with 4% formaldehyde (10 min).

Application	Abreviews	Notes
Flow Cyt		1/2500.

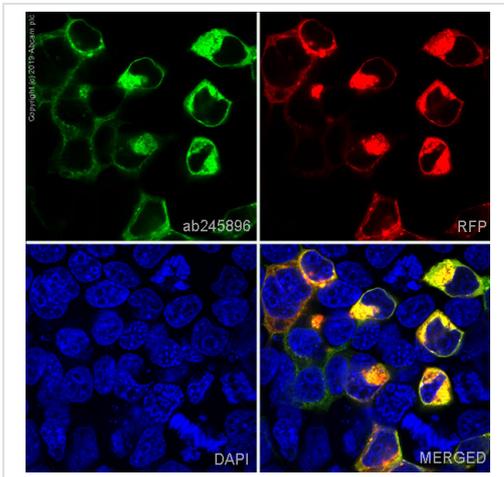
Target

Function	Receptor for the MCP-1, MCP-3 and MCP-4 chemokines. Transduces a signal by increasing the intracellular calcium ions level. Alternative coreceptor with CD4 for HIV-1 infection.
Sequence similarities	Belongs to the G-protein coupled receptor 1 family.
Post-translational modifications	N-glycosylated.
Cellular localization	Cell membrane.

Images



C57BL/6 mouse splenocytes stained with ab245896 (right) or Rabbit IgG (monoclonal) Alexa Fluor® 488 (ab199091) (left). C57BL/6 Mouse splenocytes were incubated for 30 min on ice in 1x PBS containing 10 µg/ml anti CD16/32 antibody and 10% normal goat serum to block FC receptors and non-specific protein-protein interactions followed by the antibody (ab245896) or Rabbit IgG (monoclonal) Alexa Fluor® 488 (ab199091) (1×10^6 in 100 µl at 0.2 µg/ml (1/2500)) for 30 min on ice. The cells were simultaneously stained with Ly6G/GR1 PerCP conjugated antibody (ab236728). Acquisition of >30,000 events were collected using a 50 mW Blue laser (488 nm) and 530/30 bandpass filter. Events were gated on viable lymphocytes.



ab245896 staining CCR2 in HEK-293T cells transfected with mouse CCR2 with RFP tag. The cells were fixed with 4% formaldehyde (10 min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with ab245896 at 1/200 dilution (shown in green). Nuclear DNA was labeled with DAPI (shown in blue) and RFP is shown in red.

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

Immunocytochemistry/ Immunofluorescence - Anti-CCR2 antibody [EPR20844] (Alexa Fluor® 488) (ab245896)

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

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

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