

Product datasheet

Anti-CD83 antibody [EPR22405] ab244204

Recombinant RabMAb

6 Images

Overview

Product name	Anti-CD83 antibody [EPR22405]
Description	Rabbit monoclonal [EPR22405] to CD83
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF, Flow Cyt Unsuitable for: IHC-P
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment within Human CD83 aa 1-150. The exact sequence is proprietary. Database link: Q01151
Positive control	WB: LPS treated THP-1 whole cell lysate. Raji and HDLM-2 whole cell lysate (Treated/untreated with PNGase F). ICC/IF: HDLM-2 cells. Flow Cyt: Human PBMC and HDLM-2 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> <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.</p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>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.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>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.</p>

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.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR22405
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab244204** in the following tested applications.

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

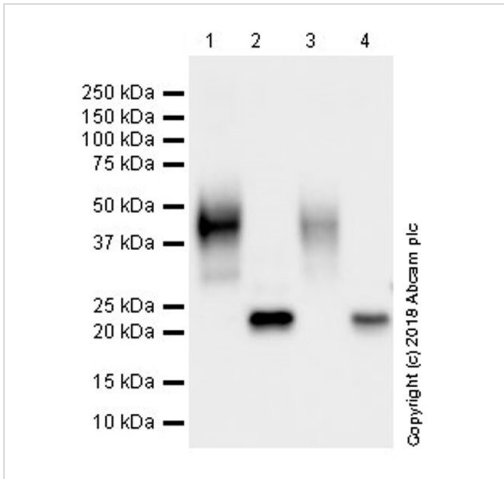
Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 23 kDa.
ICC/IF		1/50.
Flow Cyt		1/50.

Application notes Is unsuitable for IHC-P.

Target

Function	May play a significant role in antigen presentation or the cellular interactions that follow lymphocyte activation.
Tissue specificity	Expressed by activated lymphocytes, Langerhans cells and interdigitating reticulum cells.
Sequence similarities	Contains 1 Ig-like V-type (immunoglobulin-like) domain.
Cellular localization	Membrane.

Images



Western blot - Anti-CD83 antibody [EPR22405] (ab244204)

All lanes : Anti-CD83 antibody [EPR22405] (ab244204) at 1/1000 dilution

Lane 1 : Untreated Raji (human burkitt's lymphoma b lymphocyte) whole cell lysate

Lane 2 : Raji whole cell lysate treated with PNGase F

Lane 3 : Untreated HDLM-2 (human hodgkin lymphoma) whole cell lysate

Lane 4 : HDLM-2 whole cell lysate treated with PNGase F

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 23 kDa

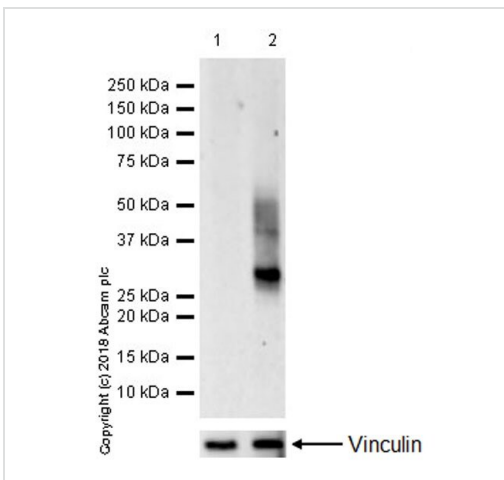
Observed band size: 40-50 kDa

[why is the actual band size different from the predicted?](#)

The molecular weight observed is consistent with what has been described in the literature (PMID: 15320871). The bands above 23 kDa are glycosylated forms.

Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure time: 26 seconds.



Western blot - Anti-CD83 antibody [EPR22405] (ab244204)

All lanes : Anti-CD83 antibody [EPR22405] (ab244204) at 1/1000 dilution

Lane 1 : Untreated THP-1 (human monocytic leukemia monocyte) whole cell lysate

Lane 2 : THP-1 treated with 100ng/ml LPS for 3 hours, whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

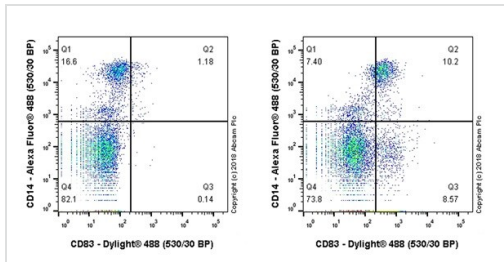
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 23 kDa

The molecular weight observed is consistent with what has been described in the literature (PMID: 15320871). The bands above 23 kDa are glycosylated forms.

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure time: 3 minutes.

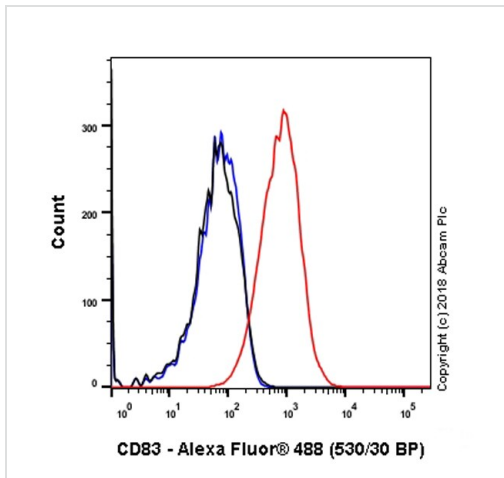


Flow Cytometry - Anti-CD83 antibody [EPR22405] (ab244204)

Flow cytometric analysis of human peripheral blood mononuclear cell (PBMC) labeling CD83 with ab244204 at 1/50 (Right panel) compared with a Rabbit monoclonal IgG (ab172730) (Left panel). Goat anti rabbit IgG (Dylight® 488, ab98462), at 1/2000 dilution was used as the secondary antibody.

Cells were stained with rabbit IgG (Left panel) or anti-CD83 RabMab (Right panel). Then stained with Alexa Fluor® 647-conjugated anti-CD14. The result is consistent with what has been described in the literature. (PMID: 15320871).

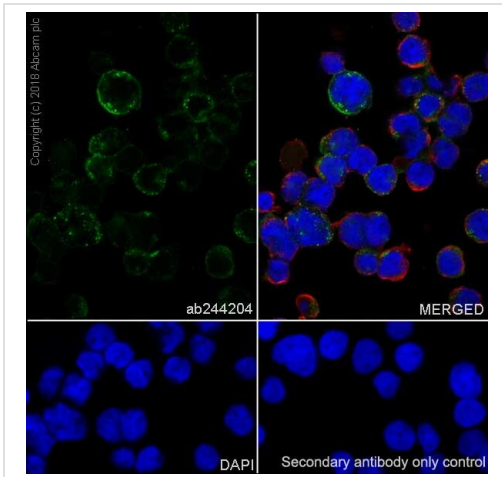
Gated on viable cells.



Flow Cytometry - Anti-CD83 antibody [EPR22405] (ab244204)

Flow cytometric analysis of HDLM-2 (human Hodgkin lymphoma) cell line labeling CD83 with ab244204 at 1/50 (red) compared with a Rabbit monoclonal IgG (ab172730) (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077), at 1/2000 dilution was used as the secondary antibody.




Gated on viable cells.



Immunofluorescent analysis of HDLM-2 (human Hodgkin lymphoma) cells fixed with 100% methanol, labeling CD83 with ab244204 at 1/50 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). Confocal image showing membranous and cytoplasmic staining in HDLM-2 cells is observed. We recommend using methanol instead of PFA fixation. The nuclear counter stain is DAPI (blue). Counterstained with ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at a 1/200 dilution (red). The negative control is the secondary antibody only.

Immunocytochemistry/ Immunofluorescence - Anti-CD83 antibody [EPR22405] (ab244204)

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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- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
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- We investigate all quality concerns to ensure our products perform to the highest standards

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