abcam

Product datasheet

Anti-CD1a antibody [EP3091] ab76531

KO VALIDATED RabMAb

2 References 2 Images

Overview

Product name	Anti-CD1a antibody [EP3091]
Description	Rabbit monoclonal [EP3091] to CD1a
Host species	Rabbit
Tested applications	**Suitable for:** WB **Unsuitable for:** Flow Cyt,IHC-P or IP
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: MOLT4, K562, fetal thymus lysates, CD1A knockout Jurkat cell lysate and HeLa cell lysate
General notes	Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. 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, along with publications, customer reviews and Q&As Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Tissue culture supernatant

Clonality	Monoclonal
Clone number	EP3091
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab76531 in the following tested applications.

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

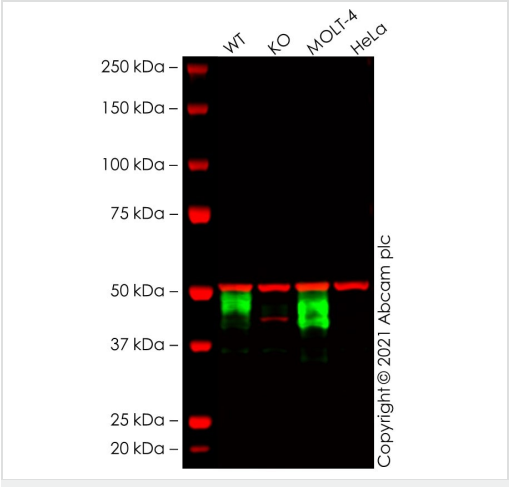
Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 37 kDa.

Application notes Is unsuitable for Flow Cyt,IHC-P or IP.

Target

Function	Antigen-presenting protein that binds self and non-self lipid and glycolipid antigens and presents them to T-cell receptors on natural killer T-cells.
Tissue specificity	Expressed on cortical thymocytes, epidermal Langerhans cells, dendritic cells, on certain T-cell leukemias, and in various other tissues.
Sequence similarities	Contains 1 Ig-like (immunoglobulin-like) domain.
Cellular localization	Cell membrane. Endosome membrane. Subject to intracellular trafficking between the cell membrane and endosomes. Localizes to cell surface lipid rafts.

Images



Western blot - Anti-CD1a antibody [EP3091] (ab76531)

All lanes : Anti-CD1a antibody [EP3091] (ab76531) at 1/1000 dilution

Lane 1 : Wild-type Jurkat cell lysate
Lane 2 : CD1A knockout Jurkat cell lysate
Lane 3 : MOLT-4 cell lysate
Lane 4 : HeLa cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat anti-Rabbit IgG H&L preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L preabsorbed (**ab216776**) at 1/20000 dilution

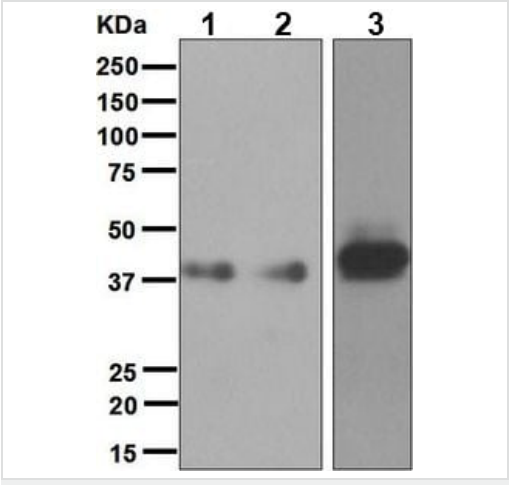
Performed under reducing conditions.

Predicted band size: 37 kDa
Observed band size: 45-50 kDa

False colour image of Western blot: Anti-CD1a antibody [EP3091] staining at 1/1000 dilution, shown in green; Mouse anti-Alpha Tubulin [DM1A] (**ab7291**) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab76531 was shown to bind specifically to CD1a.

A band was observed at 45-50 kDa in wild-type Jurkat cell lysates with no signal observed at this size in CD1A knockout cell line **ab274926** (knockout cell lysate **ab274984**). To generate this image, wild-type and CD1A knockout Jurkat cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged.

Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) at 1/20000 dilution.



Western blot - Anti-CD1a antibody [EP3091] (ab76531)

All lanes : Anti-CD1a antibody [EP3091] (ab76531) at 1/5000 dilution

Lane 1 : MOLT4 lysate
Lane 2 : K562 lysate
Lane 3 : Fetal thymus lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 37 kDa
Observed band size: 47 kDa

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