abcam

Product datasheet

Human CD1A knockout Jurkat cell lysate ab274984

画像数 3

製品の概要

製品名	Human CD1A knockout Jurkat cell lysate
製品の概要	Knockout cell lysate achieved by CRISPR/Cas9.
Parental Cell Line	Jurkat
Organism	Human
Mutation description	Knockout achieved by CRISPR/Cas9; X = 1 bp insertion; Frameshift: 99%
Passage number	<20
Knockout validation	Next Generation Sequencing (NGS), Western Blot (WB)
Reconstitution notes	To use as WB control, resuspend the lyophilizate in 50 µL of LDS* Sample Buffer to have a final concentration of 2 mg/ml. For reducing conditions, we recommend a final concentration of 0.1 M DTT. **Usage of SDS sample buffer is not recommended with these lyophilized lysates.*
特記事項	**Lysate preparation:** Our lysates are made using RIPA buffer to which we add a protease inhibitor cocktail and phosphatase inhibitor cocktail (ratio: 300:100:10). *This means that the protein of interest is denatured.* If you require a native form of the protein please use the live cell version - found **here**. Please refer to our lysis protocol for further details on how our lysates are prepared. **User storage instructions:** Lyophilizate may be stored at 4°C. After reconstitution, store at -20°C for short-term storage or -80°C for long-term storage. Access thousands of knockout cell lysates, generated from commonly used cancer cell lines. **See here for more information on knockout cell lysates.** Abcam has not and does not intend to apply for the REACH Authorisation of customers' uses of products that contain European Authorisation list (Annex XIV) substances. It is the responsibility of our customers to check the necessity of application of REACH Authorisation, and any other relevant authorisations, for their intended uses. This product is subject to limited use licenses from The Broad Institute, ERS Genomics Limited and Sigma-Aldrich Co. LLC, and is developed with patented technology. For full details of the licenses and patents please refer to our **limited use license** and **patent pages**.
アプリケーション	**適用あり:** WB

製品の特性

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保存方法 Store at -80°C. Please refer to protocols.

内容	1 kit
ab281427 - Human CD1A knockout Jurkat cell lysate	1 x 100µg
ab269598 - Human wild-type Jurkat cell lysate	1 x 100µg

Cell type T cell lymphoblast-like

Disease Non-Hodgkin Lymphoma

Gender Male

ターゲット情報

機能 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.

組織特異性 Expressed on cortical thymocytes, epidermal Langerhans cells, dendritic cells, on certain T-cell leukemias, and in various other tissues.

配列類似性 Contains 1 Ig-like (immunoglobulin-like) domain.

細胞内局在 Cell membrane. Endosome membrane. Subject to intracellular trafficking between the cell membrane and endosomes. Localizes to cell surface lipid rafts.

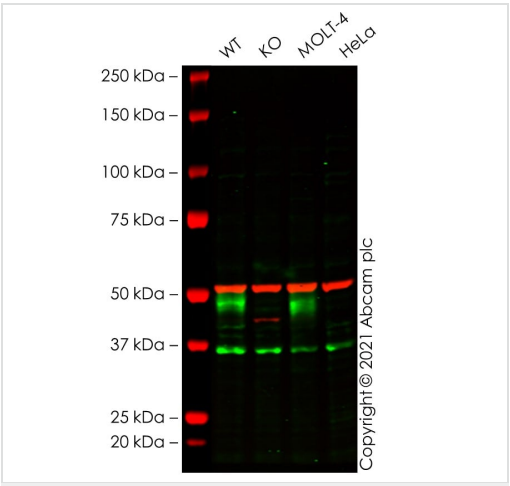
アプリケーション

The Abpromise guarantee Abpromise保証は、次のテスト済みアプリケーションにおけるab274984の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		Use at an assay dependent concentration.

画像



Western blot - Human CD1A knockout Jurkat cell lysate (ab274984)

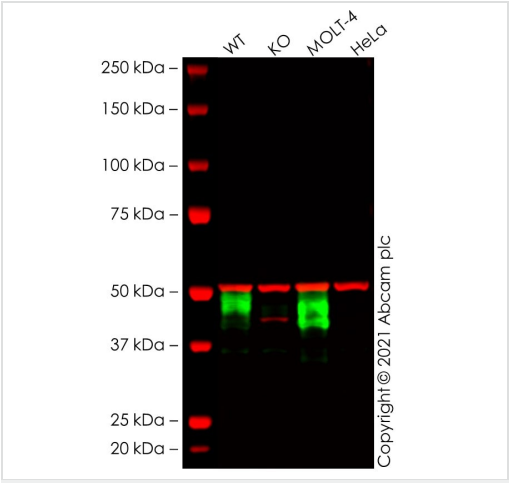
Lane 1: Wild-type Jurkat cell lysate 20 µg

Lane 2: CD1A knockout Jurkat cell lysate 20 µg

Lane 3: MOLT-4 cell lysate 20 µg

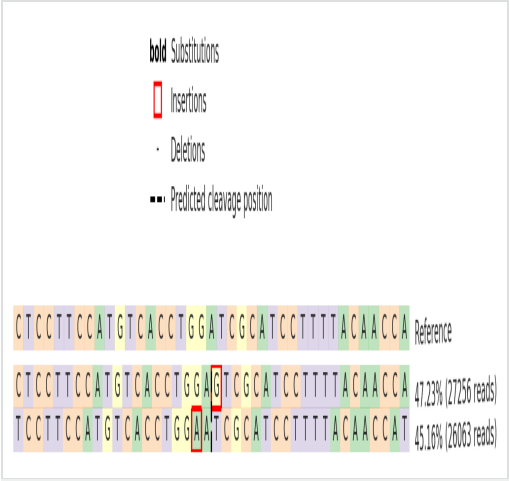
Lane 4: HeLa cell lysate 20 µg

False colour image of Western blot: Anti-CD1a antibody [EP3622] 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, **ab108309** 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 - Human CD1A knockout Jurkat cell lysate (ab274984)

Lane 1: Wild-type Jurkat cell lysate 20 µg
Lane 2: CD1A knockout Jurkat cell lysate 20 µg
Lane 3: MOLT-4 cell lysate 20 µg
Lane 4: HeLa cell lysate 20 µg
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.



Next Generation Sequencing - Human CD1A knockout Jurkat cell lysate (ab274984)

Knockout achieved by CRISPR/Cas9; X = 1 bp insertion; Frameshift: 99%

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