abcam

Product datasheet

Anti-CD40 antibody [EPR20540] - BSA and Azide free ab271995

KO 評価済 リコンビナント RabMAb

画像数 5

製品の概要

製品名	Anti-CD40 antibody [EPR20540] - BSA and Azide free
製品の詳細	Rabbit monoclonal [EPR20540] to CD40 - BSA and Azide free
由来種	Rabbit
アプリケーション	**適用あり:** IHC-P, WB
種交差性	**交差種:** Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	IHC-P: Human tonsil and large B cell lymphoma tissues.
特記事項	ab271995 is the carrier-free version of **ab213205**. 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. 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. 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. 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. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C. Do Not Freeze.
バッファー	pH: 7.2 Constituent: PBS
キャリア・フリー	はい
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR20540
アイソタイプ	IgG

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ab271995の使用に適用されます

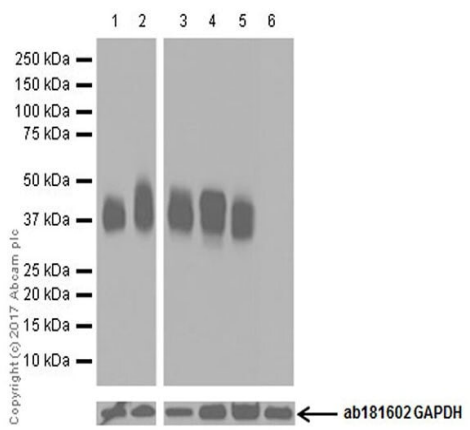
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
IHC-P		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 30 kDa.

ターゲット情報

機能	Receptor for TNFSF5/CD40LG.
組織特異性	B-cells and in primary carcinomas.
関連疾患	Defects in CD40 are the cause of hyper-IgM immunodeficiency syndrome type 3 (HIGM3) [MIM:606843]; also known as hyper-IgM syndrome 3. HIGM3 is an autosomal recessive disorder which includes an inability of B cells to undergo isotype switching, one of the final differentiation steps in the humoral immune system, an inability to mount an antibody-specific immune response, and a lack of germinal center formation.
配列類似性	Contains 4 TNFR-Cys repeats.
細胞内局在	Secreted and Cell membrane.

画像



Western blot - Anti-CD40 antibody [EPR20540] - BSA and Azide free (ab271995)

All lanes : Anti-CD40 antibody [EPR20540] (**ab213205**) at 1/2000 dilution

Lane 1 : Human tonsil lysate
Lane 2 : Human lymph node lysate
Lane 3 : Human lymphoma lysate
Lane 4 : Raji (Human Burkitt's lymphoma cell line) whole cell lysate
Lane 5 : Daudi (Human Burkitt's lymphoma cell line) whole cell lysate
Lane 6 : Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
Lanes 1-3 : VeriBlot for IP Detection Reagent (HRP) (**ab131366**) at 1/4000 dilution
Lanes 4-6 : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 30 kDa
Observed band size: 42 kDa

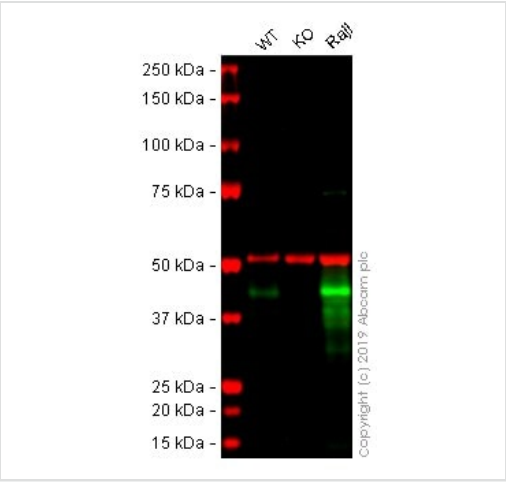
This data was developed using **ab213205**, the same antibody clone in a different buffer formulation:

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure time: Lane 1,2,3 and 4: 30 seconds; Lane 5,6 and 7: 5 seconds.

The molecular weight observed is consistent with the literature (PMID: 23404288);

Negative control: Jurkat (PMID:10498643; PMID:15708600).



Western blot - Anti-CD40 antibody [EPR20540] - BSA and Azide free (ab271995)

All lanes : Anti-CD40 antibody [EPR20540] (**ab213205**) at 1/2000 dilution

Lane 1 : Wild-type U-2 OS whole cell lysate
Lane 2 : CD40 knockout U-2 OS whole cell lysate
Lane 3 : Raji whole cell lysate

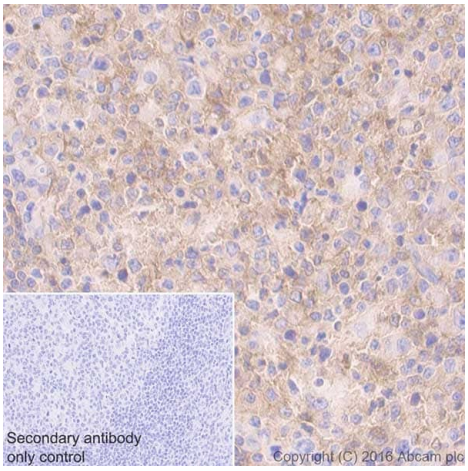
Lysates/proteins at 20 µg per lane.

Predicted band size: 30 kDa
Observed band size: 42 kDa

This data was developed using abab213205, the same antibody clone in a different buffer formulation.

Lanes 1 - 3: Merged signal (red and green). Green - **ab213205** observed at 42 kDa. Red - loading control, **ab7291** (Mouse anti-Alpha Tubulin [DM1A] observed at 55kDa.

ab213205 was shown to react with CD40 in U-2 OS wild-type cells in Western blot. Loss of signal was observed when CD40 knockout sample was used. U-2 OS wild-type and CD40 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% Milk in TBS-T (0.1% Tween®) before incubation with **ab213205** and **ab7291** (Mouse anti-Alpha Tubulin [DM1A] overnight at 4°C at a 1 in 2000 dilution and a 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD40 antibody [EPR20540] - BSA and Azide free (ab271995)

Immunohistochemical analysis of paraffin-embedded human tonsil tissue labeling CD40 with **ab213205** at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

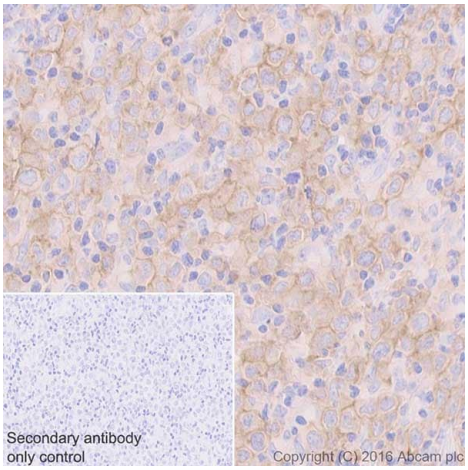
Membranous and cytoplasmic staining on germinal center of human tonsil is observed [PMID: 10360965] [PMID: 7507299] [PMID:24452203].

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab213205**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD40 antibody [EPR20540] - BSA and Azide free (ab271995)

Immunohistochemical analysis of paraffin-embedded human large B cell lymphoma tissue labeling CD40 with **ab213205** at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

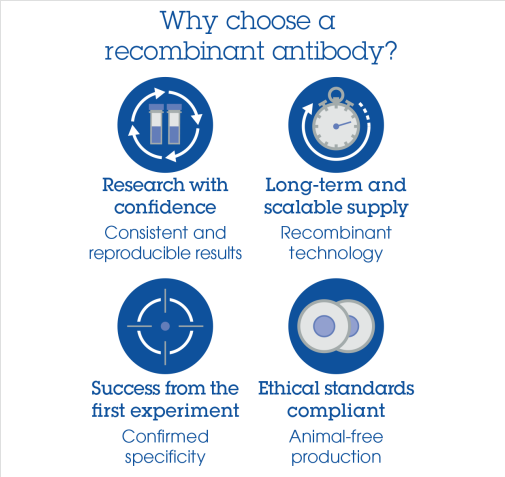
Membranous staining on human large B cell lymphoma is observed [PMID: 7507299].

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab213205**).



Anti-CD40 antibody [EPR20540] - BSA and Azide free (ab271995)

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