

Anti-CD40 antibody [EPR20540] ab213205

KO 評価済 リコンビナント RabMAb

画像数 6

製品の概要

製品名	Anti-CD40 antibody [EPR20540]
製品の詳細	Rabbit monoclonal [EPR20540] to CD40
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	WB: Human tonsil, lymph node and lymphoma lysates; Raji, U-2 OS, and Daudi whole cell lysates. IHC-P: Human tonsil and large B cell lymphoma tissues.
特記事項	<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>

製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
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

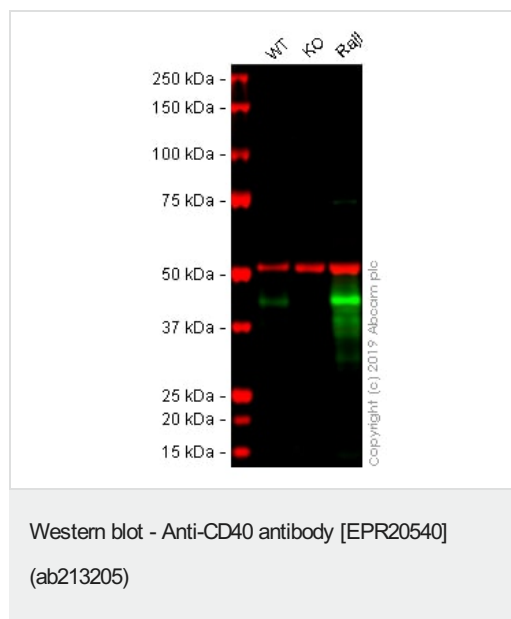
The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab213205の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
IHC-P		1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/2000. Detects a band of approximately 42 kDa (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



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 (Human Burkitt's lymphoma cell line) whole cell lysate

Lysates/proteins at 20 µg per lane.

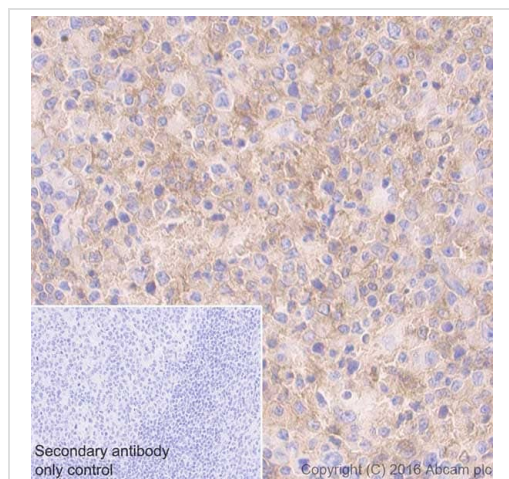
Performed under reducing conditions.

Predicted band size: 30 kDa

Observed band size: 42 kDa

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] (ab213205)

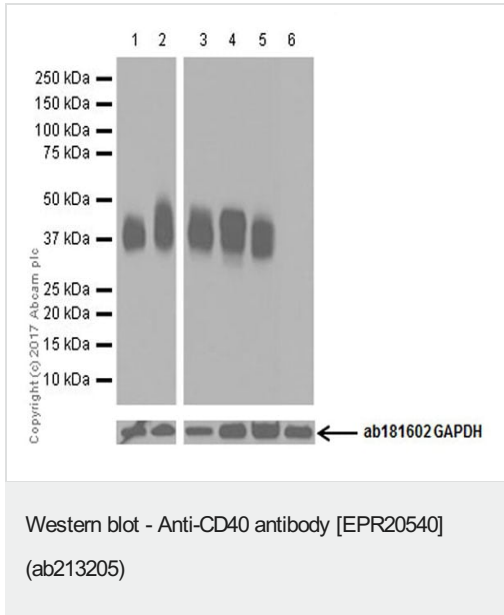
Immunohistochemical analysis of paraffin-embedded human tonsil tissue labeling CD40 with ab213205 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

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.



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

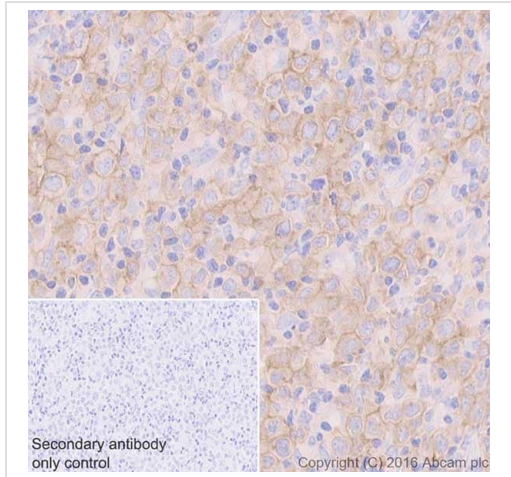
Observed band size: 42 kDa

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).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD40 antibody [EPR20540] (ab213205)

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.

Tissue Microarray (TMA) data for ab213205

Normal tissue samples		Malignant tissue samples	
Human cardiac muscle	x	Human placenta	x (stromal cells ✓)
Human cerebrum	x	Human skeletal muscle	x
Human colon	x (stromal cells ✓)	Human skin	x (stromal cells ✓)
Human endometrium	x (stromal cells ✓)	Human spleen	x (stromal cells ✓)
Human kidney	x (stromal cells ✓)	Human stomach	x
Human liver	x (stromal cells ✓)	Human testis	x
Human lung	x (stromal cells ✓)	Human thyroid	x
Human mammary gland	x	Human tonsil	✓
Human pancreas	x (stromal cells ✓)		
		Clear cell carcinoma of human kidney	x (stromal cells ✓)
		Human astrocytoma	x
		Human bladder cancer	x (stromal cells ✓)
		Human breast carcinoma	x (stromal cells ✓)
		Human cervical carcinoma	x
		Human colon carcinoma	x (stromal cells ✓)
		Human endometrial carcinoma	x (stromal cells ✓)
		Human gastric adenocarcinoma	x (stromal cells ✓)
		Human large B-cell lymphoma	✓
		Human hepatocellular carcinoma	x (stromal cells ✓)
		Human lung carcinoma	x (stromal cells ✓)
		Human ovarian carcinoma	x (stromal cells ✓)
		Human pancreatic carcinoma	x (stromal cells ✓)
		Human prostate hyperplasia	x (stromal cells ✓)
		Human thyroid carcinoma	x (stromal cells ✓)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD40 antibody [EPR20540] (ab213205)

Tissue Microarrays stained for "Anti-CD40 antibody [EPR20540]" using "ab213205" in immunohistochemical analysis. This table provides a detailed overview of positive (tick mark) and negative (cross mark) staining per sample type tested. The sections were pre-treated using Heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0). The sections were incubated with ab213205 at +4°C overnight followed by Goat Anti-Rabbit IgG H&L (HRP) [ab97051](#) at 1/500.

Why choose a recombinant antibody?

Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-CD40 antibody [EPR20540] (ab213205)

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

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