

Anti-CD31 antibody [EPR17260-254] - Low endotoxin, Azide free ab224260

リコンビナント **RabMAb**

画像数 3

製品の概要

製品名	Anti-CD31 antibody [EPR17260-254] - Low endotoxin, Azide free
製品の詳細	Rabbit monoclonal [EPR17260-254] to CD31 - Low endotoxin, Azide free
由来種	Rabbit
特異性	Not suitable for FC-Mouse.
アプリケーション	適用あり: WB, Sandwich ELISA, IP
種交差性	交差種: Mouse, Rat
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: Mouse CD31 active protein; mouse and rat platelet and lung lysates; bEnd.3 whole cell lysate. IP: bEnd.3 whole cell lysate.
特記事項	<p>ab224260 is the carrier-free version of ab213175.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <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</p>

monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

Our **Low endotoxin, azide-free formats** have low endotoxin level (≤ 1 EU/ml, determined by the LAL assay) and are free from azide, to achieve consistent experimental results in functional assays.

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	EPR17260-254
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ab224260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. Treat samples with PNGase F or phosphatase to confirm the specificity of bands if necessary. The observed band size of CD31 may not be the same as predicted MWs in WB due to the different forms and modifications of CD31. Ms Isoform 1-4: 69.8-81.3 kDa (predicted)
Sandwich ELISA		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.

ターゲット情報

機能	Induces susceptibility to atherosclerosis (By similarity). Cell adhesion molecule which is required for leukocyte transendothelial migration (TEM) under most inflammatory conditions. Tyr-690 plays a critical role in TEM and is required for efficient trafficking of PECAM1 to and from the lateral border recycling compartment (LBRC) and is also essential for the LBRC membrane to be targeted around migrating leukocytes. Prevents phagocyte ingestion of closely apposed viable cells by transmitting 'detachment' signals, and changes function on apoptosis, promoting tethering of dying cells to phagocytes (the encounter of a viable cell with a phagocyte via the homophilic interaction of PECAM1 on both cell surfaces leads to the viable cell's active repulsion from the
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phagocyte. During apoptosis, the inside-out signaling of PECAM1 is somehow disabled so that the apoptotic cell does not actively reject the phagocyte anymore. The lack of this repulsion signal together with the interaction of the eat-me signals and their respective receptors causes the attachment of the apoptotic cell to the phagocyte, thus triggering the process of engulfment). Isoform Delta15 is unable to protect against apoptosis. Modulates BDKRB2 activation. Regulates bradykinin- and hyperosmotic shock-induced ERK1/2 activation in human umbilical cord vein cells (HUVEC).

組織特異性

Expressed on platelets and leukocytes and is primarily concentrated at the borders between endothelial cells. Isoform Long predominates in all tissues examined. Isoform Delta12 is detected only in trachea. Isoform Delta14-15 is only detected in lung. Isoform Delta14 is detected in all tissues examined with the strongest expression in heart. Isoform Delta15 is expressed in brain, testis, ovary, cell surface of platelets, human umbilical vein endothelial cells (HUVECs), Jurkat T-cell leukemia, human erythroleukemia (HEL) and U937 histiocytic lymphoma cell lines (at protein level).

配列類似性

Contains 6 Ig-like C2-type (immunoglobulin-like) domains.

ドメイン

The Ig-like C2-type domains 2 and 3 contribute to formation of the complex with BDKRB2 and in regulation of its activity.

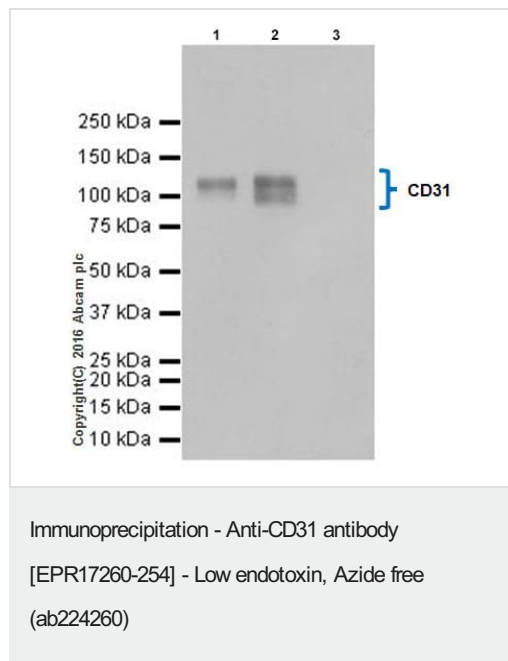
翻訳後修飾

Phosphorylated on Ser and Tyr residues after cellular activation. In endothelial cells Fyn mediates mechanical-force (stretch or pull) induced tyrosine phosphorylation.

細胞内局在

Membrane. Cell junction. Localizes to the lateral border recycling compartment (LBRC) and recycles from the LBRC to the junction in resting endothelial cells and Cell junction. Localizes to the lateral border recycling compartment (LBRC) and recycles from the LBRC to the junction in resting endothelial cells.

画像



CD31 was immunoprecipitated from 1 mg of bEnd.3 (Mouse brain endothelioma cell line) whole cell lysate with **ab213175** at 1/40 dilution.

Western blot was performed from the immunoprecipitate using **ab213175** at 1/1000 dilution.

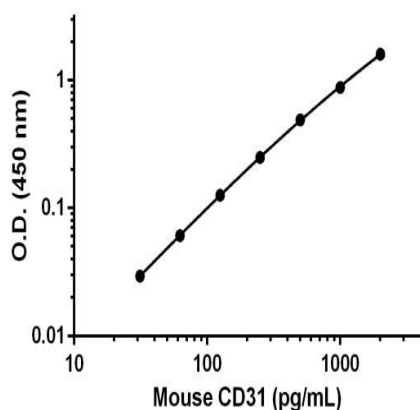
VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

Lane 1: bEnd.3 whole cell lysate 10µg (Input). Lane 2: **ab213175** IP in bEnd.3 whole cell lysate. Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab213175** in bEnd.3 whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFD/MTBST.

Exposure time: 10 seconds.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab213175**).



Sandwich ELISA - Anti-CD31 antibody [EPR17260-254] - Low endotoxin, Azide free (ab224260)

This ELISA data was generated using the same anti-CD31 antibody clone [EPR17260-254] in a different buffer formulation (cat# [ab213175](#)).

Example of mouse CD31 standard curve in 1X Cell Extraction Buffer PTR using recombinant CD31 antibody ([ab213175](#)) and a recombinant monoclonal antibody. Background-subtracted data values (mean +/- SD) are graphed.

For a matched antibody pair set, see Mouse CD31 Matched Antibody Pair Kit ([ab212065](#)).

For a complete ELISA kit, see Mouse CD31 ELISA kit ([ab204527](#)).

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

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