abcam

Product datasheet

Anti-CD31 antibody [WM59] ab218

リコンビナント

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製品の概要

製品名	Anti-CD31 antibody [WM59]
製品の詳細	Mouse monoclonal [WM59] to CD31
由来種	Mouse
アプリケーション	**適用あり:** Flow Cyt, ICC/IF **適用なし:** IHC-P
種交差性	**交差種:** Human
免疫原	Tissue, cells or virus. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	ICC: HUVEC cells. Flow Cyt: HUVEC cells.
特記事項	This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**. 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**.

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	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	WM59
アイソタイプ	IgG1

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ab218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
Flow Cyt		Use a concentration of 1.062 µg/ml.
ICC/IF	★★★☆☆ (1)	Use a concentration of 10.62 µg/ml. It is recommended to incubate cells with 0.1% Triton-X for 5 min to detect nuclear antigen. Use 0.3M glycine to quench autofluorescence caused by aldehydes. Positive Control: HUVEC cells

追加情報 Is unsuitable for IHC-P.

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 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.

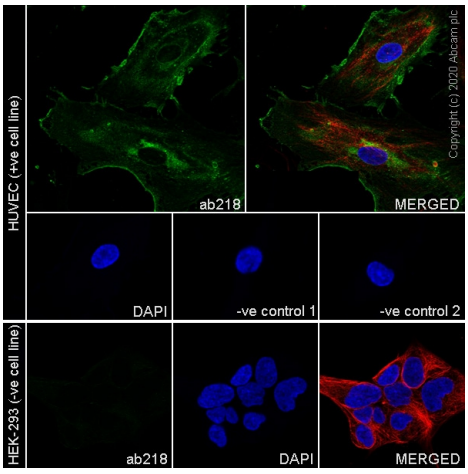
ドメイン The Ig-like C2-type domains 2 and 3 contribute to formation of the complex with BDKRB2 and in regulation of its activity.

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



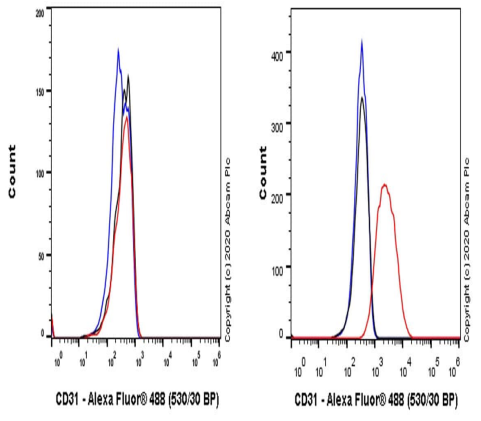
Immunocytochemistry/ Immunofluorescence - Anti-CD31 antibody [WM59] (ab218)

Immunocytochemistry analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HUVEC cells labelling CD31 with ab218 at 1/100 dilution (10.62µg/ml), followed by **ab150113** Goat Anti-mouse IgG H&L (Alexa Fluor® 488) antibody at 1/1000 (2µg/ml) dilution (Green). Confocal image showing cytoplasmic and membranous staining in HUVEC cell line. **ab179513** Anti-beta Tubulin rabbit monoclonal antibody was used to counterstain tubulin at 1/500 dilution, followed by **ab150080** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) at a 1/500 dilution (Red). The nuclear counterstain was DAPI (Blue).

Negative control cell: HEK-293 (PMID: 27097314).

Negative control 1: ab218 at a 1/100 dilution (10.62µg/ml) followed by **ab150080** at a 1/500 dilution (4µg/ml).

Negative control 2: **ab179513** at a 1/500 dilution (4µg/ml) followed by **ab150113** at a 1/1000 dilution (4µg/ml).

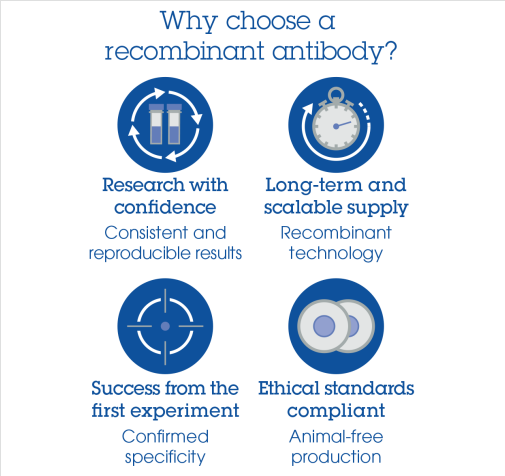


Flow Cytometry - Anti-CD31 antibody [WM59] (ab218)

Flow cytometric analysis of HEK 293 (human embryonic kidney epithelial cell) (Left panel) / HUVEC (human umbilical vein endothelial cell) (Right panel) cells labelling CD31 with ab218 at 1/1000 dilution (1.062µg/ml) (Red) compared with a mouse monoclonal IgG (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti mouse IgG (Alexa Fluor® 488, **ab150113**) at 1/2000 dilution was used as the secondary antibody.

Negative control: HEK 293 (PMID: 27097314).

Gated on viable cells.



Anti-CD31 antibody [WM59] (ab218)

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