

Product datasheet

Anti-CD41 antibody [M148] ab11024

★★★★★ 2 Abreviews 4 References 画像数 3

製品の概要

製品名	Anti-CD41 antibody [M148]
製品の詳細	Mouse monoclonal [M148] to CD41
由来種	Mouse
特異性	ab11024 binds to some medulloblastoma and neuroblastoma cells and rhabdomyosarcoma and certain other solid tumours. No binding observed to marrow constituents other than platelets and megakaryocytes.
アプリケーション	適用あり: Flow Cyt, ICC/IF, IP, IHC-P, IHC-Fr
種交差性	交差種: Human
免疫原	Tissue, cells or virus corresponding to Human CD41. Homogenized human medulloblastoma tissue. Database link: P08514

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	Preservative: None Constituents: PBS
精製度	Immunogen affinity purified
ポリ/モノ	モノクローナル
クローン名	M148
ミエローマ	P3x63-Ag8.653
アイソタイプ	IgG1

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab11024** in the following tested applications.

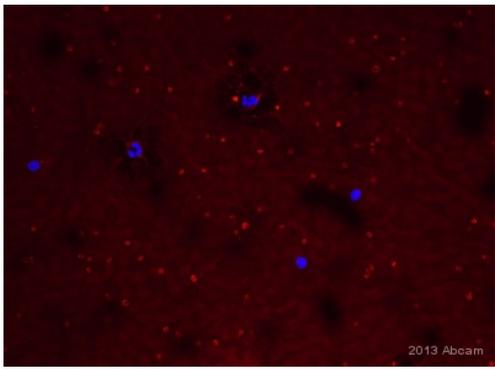
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
Flow Cyt		Use 1µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
ICC/IF	★★★★★	Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. PubMed: 25065646
IHC-Fr	★★★★★	1/1000.

ターゲット情報

機能	Integrin alpha-IIb/beta-3 is a receptor for fibronectin, fibrinogen, plasminogen, prothrombin, thrombospondin and vitronectin. It recognizes the sequence R-G-D in a wide array of ligands. It recognizes the sequence H-H-L-G-G-A-K-Q-A-G-D-V in fibrinogen gamma chain. Following activation integrin alpha-IIb/beta-3 brings about platelet/platelet interaction through binding of soluble fibrinogen. This step leads to rapid platelet aggregation which physically plugs ruptured endothelial cell surface.
組織特異性	Isoform 1 and isoform 2 were identified in platelets and megakaryocytes, but not in reticulocytes or in Jurkat and U937 white blood cell line. Isoform 3 is expressed by leukemia, prostate adenocarcinoma and melanoma cells but not by platelets or normal prostate or breast epithelial cells.
関連疾患	Defects in ITGA2B are a cause of Glanzmann thrombasthenia (GT) [MIM:273800]; also known as thrombasthenia of Glanzmann and Naegeli. GT is the most common inherited disease of platelets. It is an autosomal recessive disorder characterized by mucocutaneous bleeding of mild-to-moderate severity and the inability of this integrin to recognize macromolecular or synthetic peptide ligands. GT has been classified clinically into types I and II. In type I, platelets show absence of the glycoprotein IIb/beta-3 complexes at their surface and lack fibrinogen and clot retraction capability. In type II, the platelets express the glycoprotein IIb/beta-3 complex at reduced levels (5-20% controls), have detectable amounts of fibrinogen, and have low or moderate clot retraction capability. The platelets of GT 'variants' have normal or near normal (60-100%) expression of dysfunctional receptors.
配列類似性	Belongs to the integrin alpha chain family. Contains 7 FG-GAP repeats.
細胞内局在	Membrane.

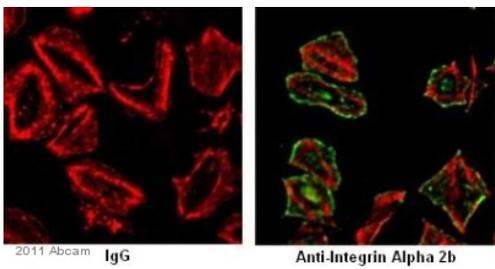
画像



Immunohistochemistry (Frozen sections) - Anti-CD41 antibody [M148] (ab11024)

This image is courtesy of an abreview submitted by Dr. Ruma Raha-Chowdhury (University of Cambridge, United Kingdom)

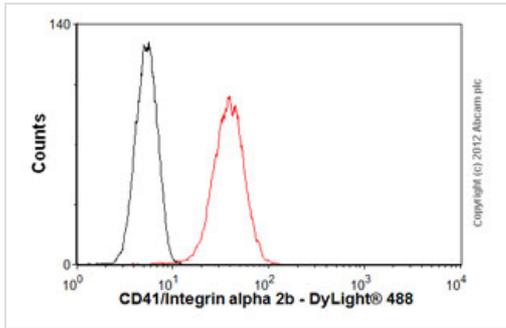
IHC-Fr image of C41 staining on human blood film using ab11024 (1:1000). The sample was fixed using paraformaldehyde and permeabilized using 0.1% TritonX in 0.1% PBS. The slides were then blocked with 10% Donkey Serum for 1 hr at 24°C. ab11024 was diluted 1:100 using 0.1% TritonX with 0.1x PBS- 10% Donkeys and slides were incubated with the primary antibody for 4 hours at 24°C. The secondary antibody used was Donkey Polyclonal to rabbit IgG conjugated to Alexa Fluor 568 (1:1000)



Immunocytochemistry/ Immunofluorescence - Anti-CD41 antibody [M148] (ab11024)

This image was submitted by an anonymous abreviewer.

ICC/IF image of ab11024 staining of human platelet cells. The sections were incubated in 10% serum to block non-specific protein-protein interactions and in 0.2% triton X to permeabilise the cells. The sections were then incubated with ab11024 (1:400) for one hour at 20°C, followed by alexa 488 conjugated secondary antibody (green). Platelets were counterstained with rhodamine phalloidin to outline the cellular cytoskeleton (red).



Flow Cytometry - Anti-CD41 antibody [M148]
(ab11024)

Overlay histogram showing HL60 cells stained with ab11024 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab11024, 1µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 2µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive result in 80% methanol (5 min) fixed HL60 cells used under the same conditions.

Please note that Abcam do not have any data for use of this antibody on non-fixed cells. We welcome any customer feedback.

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