abcam

ab270670

Alexa Fluor® 700 Anti-CD41 antibody [MEM-06]

Anti-CD41 antibody [MEM-06] conjugated to Alexa Fluor® 700 - suitable for flow cytometry, and reacts with human samples. Clone [MEM-06] is a mouse monoclonal antibody cited in 6 publications.

Design your panel with our interactive flow cytometry panel builder. Click here.

Key facts

Isotype	IgG1
Host species	Mouse
Conjugation	Alexa Fluor® 700
Excitation/Emission	Ex: 702nm, Em: 723nm
Storage buffer	pH: 7.4 Preservative: 0.0975% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Cell preparation containing ITGA2B protein. The exact immunogen used to generate this antibody is proprietary information. Database link P08514
Clone number	MEM-06
Purification technique	Size-exclusion chromatography
Specificity	This antibody reacts with an extracellular epitope of CD41 (GPIIb), a transmembrane glycoprotein (integrin family) composed of two chains GPIIb alpha (heavy chain; 120 kDa) and GPIIb beta (light chain; 23 kDa). CD41 is mainly expressed on platelets and megakaryocytes.

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	4 µL for 10^6 Cells
Notes	The reagent is designed for analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension.

Target data

See full target information ITGA2B

Function	Integrin alpha-IIb/beta-3 (ITGA2B:ITGB3) 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-G-A-K-Q-A-G-D-V in fibrinogen gamma chain (By similarity). Following activation integrin alpha-IIb/beta-3 brings about platelet/platelet interaction through binding of soluble fibrinogen (PubMed:9111081). This step leads to rapid platelet aggregation which physically plugs ruptured endothelial cell surface (By similarity). Integrin ITGA2B:ITGB3 is also the receptor of erythrocyte-specific ICAM4 ligand involved in heterotypic cell-cell adhesion between erythrocytes and activated platelets (PubMed:12477717).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Store in the dark

Notes

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Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

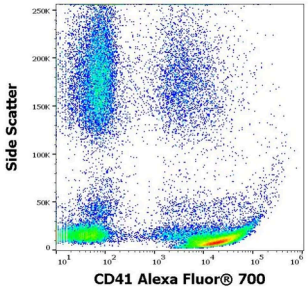
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

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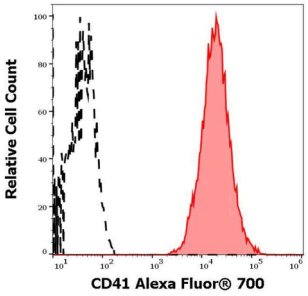
2 product images



Flow Cytometry - Alexa Fluor® 700 Anti-CD41 antibody [MEM-06] (ab270670)

CD41 Flow Cytometry staining using mouse Anti-CD41 antibody

Flow cytometry analysis of human peripheral whole blood labeling CD41 using ab270670. Surface staining.



Flow Cytometry - Alexa Fluor® 700 Anti-CD41 antibody [MEM-06] (ab270670)

CD41 Flow Cytometry staining using mouse Anti-CD41 antibody

Flow cytometry analysis of human peripheral whole blood labeling CD41 positive thrombocytes (Red) using ab270670. Surface staining.
Control: CD41 negative lymphocytes (Black).

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