

ARG53846 anti-CD41 antibody [MEM-06] (APC)

Package: 100 tests
Store at: 4°C

Summary

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|---------------------|---|
| Product Description | APC-conjugated Mouse Monoclonal antibody [MEM-06] recognizes CD41 |
| Tested Reactivity | Hu |
| Tested Application | FACS |
| Specificity | The clone MEM-06 reacts with 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. |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone | MEM-06 |
| Isotype | IgG1 |
| Target Name | CD41 |
| Immunogen | Leukocytes of patient suffering from LGL-type leukaemia. |
| Conjugation | APC |
| Alternate Names | GTA; GT; GPalpha IIb; PPP1R93; CD41; BDPLT2; BDPLT16; GP2B; Integrin alpha-IIb; GPIIb; Platelet membrane glycoprotein IIb; HPA3; CD antigen CD41; CD41B |

Application Instructions

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| Application table | Application | Dilution |
| | FACS | 10 µl / 10 ⁶ cells |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |

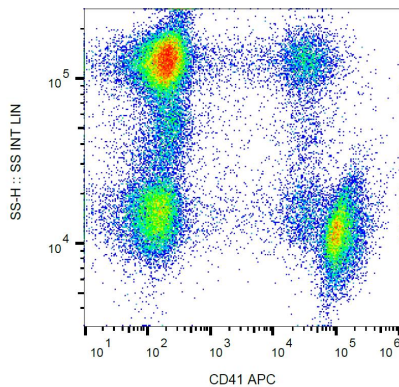
Properties

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| Form | Liquid |
| Purification Note | The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary. |
| Buffer | PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA |
| Preservative | 15 mM Sodium azide |
| Stabilizer | 0.2% (w/v) high-grade protease free BSA |
| Storage instruction | Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

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| Database links | GeneID: 3674 Human Swiss-port # P08514 Human |
| Gene Symbol | ITGA2B |
| Gene Full Name | integrin, alpha 2b (platelet glycoprotein IIb of IIb/IIIa complex, antigen CD41) |
| Background | CD41 (platelet glycoprotein IIb) is composed of two subunits (120 kDa a, alpha and 23 kDa b, beta) that interact with CD61 in the presence of calcium to form a functional adhesive protein receptor. Upon blood vessel damage, this receptor binds to a variety of proteins including von Willebrand factor, fibrinogen, fibronectin and vitronectin. CD41 is mainly expressed on megakaryocyte-platelet lineage, but generally belongs to the antigens that are expressed during early stages of hematopoietic differentiation. |
| Function | 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. [UniProt] |
| Research Area | Cell Biology and Cellular Response antibody; Developmental Biology antibody; Immune System antibody; Signaling Transduction antibody |
| Calculated Mw | 113 kDa |

Images



ARG53846 anti-CD41 antibody [MEM-06] (APC) FACS image

Flow Cytometry: Human platelets stained with ARG53846 anti-CD41 antibody [MEM-06] (APC).