

Mouse CD42a Monoclonal Antibody | anti-CD42a antibody

MOUSE ANTI HUMAN CD42a:FITC

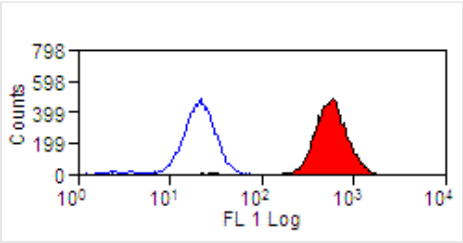
CATALOG # AAA50233	HOST Mouse	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD42a; Monoclonal Antibody; MOUSE ANTI HUMAN CD42a:FITC; anti-CD42a antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	FMC-25
Specificity	CD42a
Form/Format	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid
Concentration	IgG concentration 0.1mg/ml (varies by lot)
Sequence Length	177
Applicable Applications for anti-CD42a antibody	FCM/FACS (Flow Cytometry)
Perservative Stabilisers	0.09% Sodium Azide (NaN ₃); 1% Bovine Serum Albumin
Immunogen	Peripheral blood mononuclear cells
Buffer Solution	Phosphate buffered saline
Histology Positive Control Tissue	Bone marrow
Target Species	Human
Max Ex/Em	Fluorophore: FITC ; Excitation Max (nm): 490 ; Emission Max (nm): 525
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Preparation and Storage	Aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended



Application Data
Human peripheral blood platelets stained with Mouse anti Human CD42a:FITC (AAA50233)

ADDITIONAL INFORMATION

Related Product Information for anti-CD42a antibody	Mouse anti Human CD42a antibody, clone FMC-25 recognizes human CD42a, also known as Platelet glycoprotein IX, Glycoprotein 9 or GP-IX. CD42a is a 177 amino acid, ~20kDa type I single pass transmembrane glycoprotein containing a single leucine-rich repeat containing N-terminal domain and a single leucine-rich repeat containing C-terminal domain. CD42a is expressed by platelets and megakaryocytes and forms a covalent complex with CD42c (GP-1b-beta), CD42b (GP-1b-alpha) and CD42d (platelet glycoprotein V) to create the platelet surface receptor for von Willebrand factor. Incubation of the intact von Willebrand receptor complex with clone FMC-25 does not appear to inhibit binding of von Willebrand factor to the receptor (Yan et al. 2011). Defects in the GP1BB gene encoding human CD42a can lead to the inherited bleeding disorder Bernard-Soulier syndrome (Diz-Küçükkaya 2013), characterized by prolonged bleeding times, thrombocytopenia and the appearance of giant platelets in the circulation (Johns et al. 2014). Mouse anti human CD42a antibody, clone FMC-25 has been successfully used as a capture reagent for platelet-autoantibody complexes in the sera of patients presenting thrombocytopenia associated with anti-phospholipid syndrome (Godeau et al. 1997).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4504077
NCBI GeneID	2815
NCBI Accession #	NP_000165.1
NCBI GenBank Nucleotide #	NM_000174.4
UniProt Accession #	P14770; Q14445; Q8N1D1; Q92525
NCBI Official Full Name	platelet glycoprotein IX
NCBI Official Synonym Full Names	glycoprotein IX (platelet)
NCBI Official Symbol	GP9
NCBI Official Synonym Symbols	GPIX; CD42a
NCBI Protein Information	platelet glycoprotein IX; glycoprotein 9
UniProt Protein Name	Platelet glycoprotein IX
UniProt Gene Name	GP9
UniProt Synonym Gene Names	GP-IX; GPIX
UniProt Entry Name	GPIX_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.