

Mouse Anti-Human CD42a,
monoclonal

CatNo **MAK0594**

BatchNo: See label
Expiration Date: See label
Storage: 2-8°C for 1 month
-20°C for longer

Clone Number:	FMC-25
Volume/Quantity:	0.25 ml/0.25 mg
CD-Number:	CD42a
Product Form:	Purified IgG - liquid
Preparation:	Purified IgG prepared by ion exchange chromatography on Protein G from tissue culture supernatant.
Buffer:	Phosphate buffered saline
Preservatives Stabilisers:	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations:	IgG concentration 1mg/ml
Immunogen:	Peripheral blood mononuclear cells
Isotype:	IgG1 (Mouse)
Specificity:	MAK0594 recognises the human CD42a cell surface antigen, a 22kD glycoprotein also known as the platelet glycoprotein gp Ib-IX complex. CD42a is expressed by platelets and megakaryocytes.

Applications:	Suggested Working Dilution	
FlowCytometry	Yes	1/50
Immunohistology-frozen	Yes	1/40
Immunohistology-paraffin	Not tested	
Immunohistology-resin	Not tested	
ELISA	Not tested	
Immunoprecipitation	Not tested	
Western Blotting	Not tested	
Radioimmunoassay	Not tested	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Flow Cytometry	
	Use 50 µl of the suggested working dilution to label 10 ⁶ cells. Method sheets are available on request.
Recommended Secondary Reagents:	F(ab') ₂ rabbit anti-mouse IgG:FITC conjugate (LINARIS CatNo LST0009B) F(ab') ₂ rabbit anti-mouse IgG:RPE conjugate (LINARIS CatNo LST0012A/B)
Recommended Negative Controls:	Mouse IgG1 Negative Control (LINARIS CatNo ITC0928)

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Immunohistology

Positive Control Tissue: Bone marrow
 Recommended Secondary Reagents: F(ab')₂ rabbit anti-mouse IgG HRP conjugate - (LINARIS CatNo LST0013B)
Peroxidase Vectastain® ABC-Elite Mouse IgG (Vector CatNo PK-6102)
 DAB-Substrate (LINARIS CatNo E108) or HistoGreen-Substrate (LINARIS CatNo E109)
Alkaline Phosphatase Vectastain® ABC Mouse IgG (Vector CatNo AK-5002)
 Vector® Red (Vector CatNo SK-5100).
Recommended Negative Controls: Mouse IgG1 Negative Control (LINARIS CatNo ITC0928)

References

1. Zola, H., et al. (1984). Monoclonal Antibodies against Antigens of the Human Platelet Surface: Preparation and Properties. *Pathology* 16: 73-78.
2. Berndt, M.C., et al. (1985). Molecular characterisation of quinine/quinidine drug-dependent antibody platelet interaction using monoclonal antibodies. *Blood*. 66: 1292-1301.
3. Berndt, M.C., et al. (1985). Purification and preliminary characterisation of the human platelet membrane glycoprotein Ib complex. *Eur. J. Biochem.* 151: 637-649.
4. Berndt, M.C., et al. (1983). Additional glycoprotein defects in Bernard-Soulier's syndrome: Confirmation of genetic basis by parental analysis. *Blood*. 62: 800-807.
5. San Miguel, J.F., et al. (1985). Characterisation of blast cells in chronic granulocytic leukaemia in transformation, acute myelofibrosis and undifferentiated leukaemia. II Studies with monoclonal antibodies and terminal transferase. *Brit. J. Haematol.* 59: 297-309.
6. San Miguel, J.F., et al. (1986). Surface marker analysis in acute myeloid leukaemia and correlation with FAB classification. *Brit. J. Haematol.* 64: 547-560.
7. Berndt, M.C., et al. (1989). A multifunctional receptor which controls haemostasis. *Today's Life Sciences* 1: 20-25.
8. Berndt, M.C., et al. (1988). Ristocetin-dependant reconstitution of binding of von Willebrand Factor to purified human platelet membrane Glycoprotein Ib-IX complex. *Biochemistry* 27: 633-640.

Storage Conditions: Store at 2-8°C for one month or at -20°C for longer!
 Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life: 12 months from date of despatch.
Health and Safety Information: (A full Health and Safety assessment is available upon request)
 This product contains sodium azide: a POISONOUS and HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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For Research purposes only. Not for therapeutic or diagnostic use.