Mouse Anti-Human CD42a,

monoclonal

CatNo **MAK0594**

BatchNo:
Despatch Date:
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
Buffer:	Tris buffered saline
Preservatives Stabilisers:	0.09% Sodium Azide (NaN_3) 0.2% Bovine Serum Albumin (BSA)
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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LINARIS Biologische Produkte GmbH · Frankenweg 18 · D-69221 Dossenheim
Telefon: ++49(0)621/400677-0 · Telefax: ++49 (0)621/400677-19
E-Mail: info@linaris.de · Internet: http://www.linaris.de · USTIdentNummer DE276264940
Amtsgericht Mannheim, HRB-Nr. 711070 · Geschäftsführer/CEO Dr. Peter HARBARTH, Dr. Steffen ROTH

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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) ABC-Kit Mouse IgG-POD Labelling (LINARIS CatNo EDP4002) DAB-Substrate for POD (LINARIS CatNo E108) ABC-Kit Mouse IgG AP Labelling (LINARIS CatNo EDA5002) BCIP/NBT Substrate for AP (LINARIS CatNo ESA5400)
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.

LINARIS Biologische Produkte GmbH · Frankenweg 18 · D-69221 Dossenheim
Telefon: ++49(0)621/400677-0 · Telefax: ++49 (0)621/400677-19
E-Mail: info@linaris.de · Internet: http://www.linaris.de · USt!dentNummer DE276264940
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