

Datasheet: MCA1095F

Description:	MOUSE ANTI SHEEP CD41/CD61:FITC
Specificity:	CD41/CD61
Other names:	GP11b-IIIa
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	CO.35E4
Isotype:	IgG1
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	■			Neat - 1/2

Where this product 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 product for use in their own system using appropriate negative/positive controls.

Target Species

Sheep

Species Cross Reactivity

Reacts with: Goat, Cat, Rabbit, Dog, Horse, Bovine

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525

Preparation

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	Sheep leucocytes.
Fusion Partners	Spleen cells from immunized mice were fused the cells of the SP2-0/Ag14 mouse myeloma cell line.
Specificity	Mouse anti Sheep CD41/CD61 antibody, clone CO.35E4 recognizes ruminant CD41/CD61, also known as GpIIb/IIIa. CD41/CD61 is a calcium-complex dependent heterodimer and is expressed almost exclusively on platelets and on their precursors, the megakaryocytes. This complex is an activation-dependent receptor for RGD (Arg-Gly-Asp)-containing glycoproteins such as fibrinogen, fibronectin, von Willebrand factor, thrombospondin and vitronectin. It plays a central role in platelet aggregation and haemostasis.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul
References	1. Pintado, C.O. <i>et al.</i> (1995) Characterisation of a membrane receptor on ruminants and equine platelets and peripheral blood leukocytes similar to the human integrin receptor glycoprotein IIb/IIIa (CD41/61). Vet Immunol Immunopathol. 44 (3-4): 359-68. 2. Brodersen, R. <i>et al.</i> (1998) Analysis of the immunological cross reactivities of 213 well characterized monoclonal antibodies with specificities against various leucocyte surface antigens of human and 11 animal species. Vet Immunol Immunopathol. 64 (1): 1-13. 3. Lalko, C.C. <i>et al.</i> (2003) Equine platelet CD62P (P-selectin) expression: a phenotypic and morphologic study. Vet Immunol Immunopathol. 91 (2): 119-34. 4. Major, T.C. <i>et al.</i> (2010) The attenuation of platelet and monocyte activation in a rabbit model of extracorporeal circulation by a nitric oxide releasing polymer. Biomaterials. 31: 2736-45. 5. Brainard, B.M. <i>et al.</i> (2012) Treatment with aspirin or clopidogrel does not affect equine platelet expression of P selectin or platelet-neutrophil aggregates. Vet Immunol Immunopathol. 149: 119-25. 6. Iwaszko-Simonik, A. <i>et al.</i> (2015) Expression of surface platelet receptors (CD62P and CD41/61) in horses with recurrent airway obstruction (RAO). Vet Immunol Immunopathol. 164 (1-2): 87-92. 7. Finding, E.J.T. <i>et al.</i> (2018) Cell specific microvesicles vary with season and disease predisposition in healthy and previously laminitic ponies. Vet Immunol Immunopathol. 202: 85-92. 8. Theuerkauf, K. <i>et al.</i> (2022) Activated platelets and platelet-leukocyte aggregates in the equine systemic inflammatory response syndrome. J Vet Diagn Invest. 10406387221077969.
Storage	This product is shipped at ambient temperature. It is recommended to 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.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1095F
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Regulatory	For research purposes only
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Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M450728:260518'

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