

Datasheet: MCA2034G

BATCH NUMBER 167701

Description:	MOUSE ANTI RAT CD49f
Specificity:	CD49f
Other names:	INTEGRIN ALPHA 6 CHAIN, VLA-6
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	Mab-5A
Isotype:	lgG1
Quantity:	0.25 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	-			
Immunohistology - Frozen	•			
Immunohistology - Paraffin				
ELISA	-			
Immunoprecipitation				
Western Blotting				
Immunofluorescence	•			

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	Rat
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	0.09% sodium azide (NaN ₃)

Stabilisers

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Rat oesophageal carcinoma cell line B2T.
RRID	AB_10975483
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line.
Specificity	Mouse anti Rat CD49f antibody, clone Mab-5A recognizes rat CD49f, also known as Integrin alpha-6, VLA-6 or CD49 antigen-like family member F. CD49f is a 1130 amino acid ~130 kDa single pass type 1 transmembrane glycoprotein which functions as a receptor for laminin when in association with either beta-1 or beta-4 integrins on platelets and epithelial cells respectively.
	Mouse anti Rat CD49f antibody, clone Mab-5A does not react with rat fibroblasts.
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl
References	 Patrick, J.C. & Wu, X. (2003) Integrin-mediated preadipocyte adhesion and migration on laminin-1. <u>Ann Biomed Eng. 31 (5): 505-14.</u> Paku, S. <i>et al.</i> (2004) 2-acetylaminofluorene dose-dependent differentiation of rat oval cells into hepatocytes: confocal and electron microscopic studies. <u>Hepatology. 39: 1353-61.</u> Koenig, S. <i>et al.</i> (2006) Zonal hierarchy of differentiation markers and nestin expression during oval cell mediated rat liver regeneration. <u>Histochem Cell Biol.126: 723-34.</u> Sanchez-Esteban, J. <i>et al.</i> (2006) Integrins beta1, alpha6, and alpha3 contribute to mechanical strain-induced differentiation of fetal lung type II epithelial cells via distinct mechanisms. <u>Am J Physiol Lung Cell Mol Physiol. 290: L343-50.</u> Kurzrock, E.A. <i>et al.</i> (2008) Label-retaining cells of the bladder: candidate urothelial stem cells. <u>Am J Physiol Renal Physiol. 294 (6): F1415-21.</u> Chen, J. <i>et al.</i> (2009) Expression of laminin isoforms, receptors, and binding proteins unique to nucleus pulposus cells of immature intervertebral disc. <u>Connect Tissue Res. 50: 294-306.</u> Huang, E. <i>et al.</i> (2009) Characterization of rat hair follicle stem cells selected by vario magnetic activated cell sorting system. <u>Acta Histochem Cytochem. 42: 129-36.</u> D'Souza, R. <i>et el</i> (2009) Disruption of tubulobulbar complex by high intratesticular estrogens leading to failed spermiation. <u>Endocrinology. 150: 1861-9.</u> Stevenson, K.S. <i>et al.</i> (2009) Isolation, characterization, and differentiation of thy1.1-sorted pancreatic adult progenitor cell populations. <u>Stem Cells Dev. 18: 1389-98.</u> Krause, P. <i>et al.</i> (2010) Liver sinusoidal endothelial and biliary cell repopulation following irradiation and partial hepatectomy. <u>World J Gastroenterol. 16: 3928-35.</u> Kudo, K.I. <i>et al.</i> (2020) Flow Cytometry Definition of Rat Mammary Epithelial Cell

Populations and Their Distinct Radiation Responses. <u>Radiat Res. 194 (1): 22-37.</u>
12. Dufresne, J. *et al.* (2022) Differential gene expression and hallmarks of stemness in epithelial cells of the developing rat epididymis. <u>Cell Tissue Res. 389 (2): 327-49.</u>

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.

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) RPE

Goat Anti Mouse IgG IgA IgM (STAR87...) HRP

Goat Anti Mouse IgG (STAR76...) RPE

Goat Anti Mouse IgG (STAR70...) FITC

Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®550,

DyLight®650, DyLight®680, DyLight®800,

FITC, HRP

Rabbit Anti Mouse IgG (STAR9...) FITC

Goat Anti Mouse IgG (STAR77...) HRP

Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP

Rabbit Anti Mouse IgG (STAR13...) HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA1209)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Worldwide

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Europe

Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_us@bio-rad.com

Email: antibody_sales_uk@bio-rad.com

Email: antibody_sales_de@bio-rad.com

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

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