

## Datasheet: MCA2034PE

<b>Description:</b>	MOUSE ANTI RAT CD49f:RPE
<b>Specificity:</b>	CD49f
<b>Other names:</b>	INTEGRIN ALPHA 6 CHAIN, VLA-6
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	Mab-5A
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 TESTS

## 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	■			Neat

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

<b>Target Species</b>	Rat		
<b>Product Form</b>	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
<b>Reconstitution</b>	Reconstitute with 1.0ml distilled water		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	RPE 488nm laser	496	578
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )		
<b>Stabilisers</b>	1% Bovine Serum Albumin 5% Sucrose		
<b>Immunogen</b>	Rat oesophageal carcinoma cell line B2T.		
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line.		
<b>Specificity</b>	<b>Mouse anti Rat CD49f antibody, clone Mab-5A</b> 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.

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**Flow Cytometry** Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

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- References**
1. Jamasbi, R.J. *et al.* (1992) A monoclonal antibody produced against a rat esophageal carcinoma cell line reacts with an integrin-like molecule expressed by rat epithelial cells. [Hybridoma. 11 \(5\): 581-94.](#)
  2. Stevenson, K.S. *et al.* (2009) Isolation, characterization, and differentiation of thy1.1-sorted pancreatic adult progenitor cell populations. [Stem Cells Dev. 18: 1389-98.](#)
  3. D'Souza, R. *et al.* (2009) Disruption of tubulobulbar complex by high intratesticular estrogens leading to failed spermiation. [Endocrinology. 150: 1861-9.](#)
  4. Krause, P. *et al.* (2010) Liver sinusoidal endothelial and biliary cell repopulation following irradiation and partial hepatectomy. [World J Gastroenterol. 16: 3928-35.](#)
  5. Huang, E. *et al.* (2009) Characterization of rat hair follicle stem cells selected by vario magnetic activated cell sorting system. [Acta Histochem Cytochem. 42: 129-36.](#)
  6. Sanchez-Esteban, J. *et al.* (2006) Integrins beta1, alpha6, and alpha3 contribute to mechanical strain-induced differentiation of fetal lung type II epithelial cells via distinct mechanisms. [Am J Physiol Lung Cell Mol Physiol. 290: L343-50.](#)
  7. Paku, S. *et al.* (2004) 2-acetylaminofluorene dose-dependent differentiation of rat oval cells into hepatocytes: confocal and electron microscopic studies. [Hepatology. 39: 1353-61.](#)
  8. Chen, J. *et al.* (2009) Expression of laminin isoforms, receptors, and binding proteins unique to nucleus pulposus cells of immature intervertebral disc. [Connect Tissue Res. 50: 294-306.](#)
  9. Koenig, S. *et al.* (2006) Zonal hierarchy of differentiation markers and nestin expression during oval cell mediated rat liver regeneration. [Histochem Cell Biol. 126: 723-34.](#)
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**Storage** Prior to reconstitution store at +4°C.  
After reconstitution store at +4°C.  
DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee** 12 months from date of despatch.

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**Health And Safety Information** Material Safety Datasheet documentation #10075 available at:  
10075: <https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA1209PE\)](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

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