Datasheet: MCA1457T BATCH NUMBER 166440

Description:	MOUSE ANTI HUMAN CD49f
Specificity:	CD49f
Other names:	INTEGRIN ALPHA 6 CHAIN, VLA-6
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	450-30A
Isotype:	lgG1
Quantity:	25 µg

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 <u>www.bio-rad-antibodies.com/protocols</u>.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	•			1/10 - 1/50
Immunohistology - Frozen (1)				1/50 - 1/100
Immunohistology - Paraffin				
ELISA			•	
Immunoprecipitation			•	
Western Blotting				

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.

(1)The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

	Phosphate buffered saline
Preservative Stabilisers	0.09% sodium azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	alpha 6 beta 4 integrin purified from A431 cells.
External Database Links	UniProt: P23229 Related reagents Entrez Gene: 3655 ITGA6 Related reagents
RRID	AB_2128304
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line.
Specificity	Mouse anti Human CD49f antibody, clone 450-30A recognizes the human VLA-6 cell surface antigen, also known as the alpha 6 integrin and as CD49f.
	CD49f is expressed by platelets, weakly by monocytes and by a subset of lymphocytes.
	CD49f is also widely expressed on epithelial tissues.
Flow Cytometry	CD49f is also widely expressed on epithelial tissues. Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl
Flow Cytometry Histology Positive Control Tissue	

	6. López, J. et al. (2012) Cancer-initiating cells derived from established cervical cell lines
	exhibit stem-cell markers and increased radioresistance. BMC Cancer. 12: 48.
	7. Keller, P.J. et al. (2012) Defining the cellular precursors to human breast cancer. Proc
	Natl Acad Sci U S A. 109: 2772-7.
	8. Aldridge, V. et al. (2012) Human mesenchymal stem cells are recruited to injured liver
	in a β1-integrin and CD44 dependent manner. <u>Hepatology. 56 (3): 1063-73.</u>
	9. Steinberg, F. et al. (2012) SNX17 protects integrins from degradation by sorting
	between lysosomal and recycling pathways. <u>J Cell Biol. 197 (2): 219-30.</u>
	10. Goyer, B. et al. (2018) Extracellular Matrix and Integrin Expression Profiles in Fuchs
	Endothelial Corneal Dystrophy Cells and Tissue Model. <u>Tissue Eng Part A. 24 (7-8):</u> 607-15.
	 11. Amirian, M. <i>et al.</i> (2022) VASA protein and gene expression analysis of human
	non-obstructive azoospermia and normal by immunohistochemistry, immunocytochemistry,
	and bioinformatics analysis. Sci Rep. 12 (1): 17259.
	12. Hashemi Karoii, D. <i>et al.</i> (2023) Altered G-Protein Transduction Protein Gene
	Expression in the Testis of Infertile Patients with Nonobstructive Azoospermia. DNA Cell
	Biol. 42 (10): 617-37.
	B[0]: 42(10): 017-37
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at
Storage	
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at
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.
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
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
Storage Guarantee	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
Guarantee	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.
	 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. 12 months from date of despatch Material Safety Datasheet documentation #10040 available at:
Guarantee Health And Safety	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 Health And Safety	 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. 12 months from date of despatch Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1457T
Guarantee Health And Safety	 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. 12 months from date of despatch Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1457T

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12)	RPE		
Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>			
Goat Anti Mouse IgG (STAR76)	RPE		
Rabbit Anti Mouse IgG (STAR13)	HRP		
Goat Anti Mouse IgG (STAR70)	<u>FITC</u>		
Goat Anti Mouse IgG (H/L) (STAR117)	<u>Alk. Phos.</u> , <u>DyLight®488</u> , <u>DyLight®550</u> ,		
	DyLight®650, DyLight®680, DyLight®800,		
	<u>FITC</u> , <u>HRP</u>		
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>		
Goat Anti Mouse IgG (STAR77)	HRP		
Goat Anti Mouse IgG (Fc) (STAR120)	<u>FITC, HRP</u>		

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bic	-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 'M422007:230822'

Printed on 18 Jan 2024

© 2024 Bio-Rad Laboratories Inc | Legal | Imprint