

Datasheet: MCA1457GA

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| 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: | 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 | ▪ | | | 1/10 - 1/50 |
| Immunohistology - Frozen (1) | ▪ | | | 1/50 - 1/100 |
| Immunohistology - Paraffin | | ▪ | | |
| ELISA | | | ▪ | |
| Immunoprecipitation | | | ▪ | |
| Western Blotting | ▪ | | | |

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.

(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.

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| Target Species | Human |
| Product Form | Purified IgG - liquid |
| Preparation | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | 0.09% Sodium Azide |
| 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_324600

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 Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

Histology Positive Control Tissue Tonsil

References

1. Kennel, S.J. *et al.* (1990) Second generation monoclonal antibodies to the human integrin alpha 6 beta 4. [Hybridoma. 9 \(3\): 243-55.](#)
 2. Maurice, S. *et al.* (2007) Isolation of progenitor cells from cord blood using adhesion matrices. [Cytotechnology. 54: 121-33.](#)
 3. Cavers, M. *et al.* (2002) Differential expression of beta1 and beta2 integrins and L-selectin on CD4+ and CD8+ T lymphocytes in human blood: comparative analysis between isolated cells, whole blood samples and cryopreserved preparations. [Clin Exp Immunol. 127: 60-5.](#)
 4. 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.](#)
 5. Keller, P.J. *et al.* (2012) Defining the cellular precursors to human breast cancer. [Proc Natl Acad Sci U S A. 109: 2772-7.](#)
 6. Kaczmarek, M. *et al.* (2011) Evaluation of the phenotype pattern of macrophages isolated from malignant and non-malignant pleural effusions. [Tumour Biol. 32: 1123-32.](#)
 7. Aldridge, V. *et al.* (2012) Human mesenchymal stem cells are recruited to injured liver in a β 1-integrin and CD44 dependent manner. [Hepatology. 56 \(3\): 1063-73.](#)
 8. Steinberg, F. *et al.* (2012) SNX17 protects integrins from degradation by sorting between lysosomal and recycling pathways. [J Cell Biol. 197 \(2\): 219-30.](#)
 9. Liu, L. *et al.* (2003) Priming of eosinophil migration across lung epithelial cell monolayers and upregulation of CD11b/CD18 are elicited by extracellular Ca²⁺. [Am J Respir Cell Mol Biol. 28: 713-21.](#)
 10. Goyer, B. *et al.* (2017) Extracellular matrix and integrin expression profiles in Fuchs endothelial corneal dystrophy cells and tissue model. [Tissue Eng Part A. Jul 20 \[Epub ahead of print\].](#)
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Storage Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. 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 #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf |
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| Regulatory | For research purposes only |
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®680](#),
[DyLight®800](#), [FITC](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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|----------------------------------|---|------------------|---|---------------|---|
| North & South America | Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com | Worldwide | Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com | Europe | Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com |
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