

Datasheet: MCA1985

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|----------------------|------------------------|
| Description: | MOUSE ANTI HUMAN CD175 |
| Specificity: | CD175 |
| Other names: | TN |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | BRIC111 |
| Isotype: | IgG1 |
| Quantity: | 0.2 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 | | | ▪ | |
| Haemagglutination | ▪ | | | |

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.

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|---------------------------------|---------------------------------------------------|
| Target Species | Human |
| Product Form | Purified IgG - liquid |
| Preparation | Antibody purified from tissue culture supernatant |
| Buffer Solution | TRIS buffered glycine |
| Preservative Stabilisers | <0.1% sodium azide (NaN ₃) |
| Approx. Protein | IgG concentration 1.0 mg/ml |

Concentrations

Immunogen Human Tn red blood cells.

RRID AB_323276

Fusion Partners Spleen cells from immunised mice were fused with cells of a myeloma cell line

Specificity **Mouse anti Human CD175 antibody, clone BRIC111** recognizes Tn antigen on glycophorin A and glycophorin B in human erythrocytes. Tn is a cryptantigen which was designated CD175 at the 7th Leucocyte Typing Workshop. Tn antigen is not expressed on normal haemopoietic cells but exposure of the Tn is associated with polyagglutination.

Histology Positive Control Tissue Human breast carcinoma

References

1. Deutscher, S.L. *et al.* (2010) Carbohydrate antigens in nipple aspirate fluid predict the presence of atypia and cancer in women requiring diagnostic breast biopsy. [BMC Cancer. 10: 519.](#)
2. King, M.J. *et al.* (1994) Two different glycosyltransferase defects that result in GalNAc alpha-O-peptide (Tn) expression. [Glycobiology. 4 \(3\): 267-79.](#)
3. Wua, A.M. *et al.* (2005) Further characterization of the binding properties of two monoclonal antibodies recognizing human Tn red blood cells. [J Biomed Sci. 12 \(1\): 153-66.](#)

Further Reading

1. Cao, Y. (2008) Expression of CD175 (Tn), CD175s (sialosyl-Tn) and CD176 (Thomsen-Friedenreich antigen) on malignant human hematopoietic cells. [Int J Cancer. 123: 89-99.](#)

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

Health And Safety Information Material Safety Datasheet documentation #10072 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1985>
10072

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) [HRP](#)

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
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 (STAR13...) [HRP](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Recommended Negative Controls

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

| | | | | | |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M412448:221111'

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