

Datasheet: MCA2523

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| Description: | MOUSE ANTI HUMAN D-DIMER |
| Specificity: | D-dimer |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | DD1 |
| Isotype: | IgG2a |
| 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 | ▪ | | | |

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 | Purified IgG prepared by affinity chromatography on Protein A from ascites |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | <0.1% Sodium Azide (NaN ₃) |
| Approx. Protein Concentrations | IgG concentration 1.0mg/ml |

Immunogen Homogenised fibrin clot.

External Database

Links

UniProt:

[P02671](#) [Related reagents](#)

[P02675](#) [Related reagents](#)

[P02679](#) [Related reagents](#)

Entrez Gene:

[2243](#) FGA [Related reagents](#)

[2244](#) FGB [Related reagents](#)

[2266](#) FGG [Related reagents](#)

RRID AB_609617

Fusion Partners Spleen cells from immunized Balb/c mice were fused with cells of the Sp2/0 myeloma cell line

Specificity **Mouse anti Human D-Dimer antibody, clone DD1** recognizes human D-dimer and high molecular weight fibrin degradation products, but does not cross-react with fibrinogen (D-monomer).

D-dimers are the principle degradation products of cross-linked fibrin, released into the bloodstream following the digestion of fibrin clots (thrombus) by the enzyme plasmin, and thus measurement of the level of D-dimer in plasma, can be used as an indication of thrombotic disorders. Conditions in which levels of D-dimer are elevated include deep vein thrombosis (DVT), venous thromboembolism (VTE), cardiovascular disease and disseminated intravascular coagulation (DIC), a possible acute condition arising from surgical operations, septic shock and liver disease.

References

1. Ibutoto, Z.H. *et al.* (2014) The Development of Highly Sensitive and Selective Immunosensor Based on Antibody Immobilized ZnO Nanorods for the Detection of D-Dimer [Electroanalysis. 26 \(2\): 292-8.](#)
 2. Georgia-Paraskei, N. *et al.* (2014) A Selective Immunosensor for D-dimer Based on Antibody Immobilized on a Graphene Electrode with Incorporated Lipid Films [Electroanalysis. 26 \(7\): 1522-7.](#)
 3. Zamolodchikov, D. *et al.* (2016) The Alzheimer's disease peptide β -amyloid promotes thrombin generation through activation of coagulation factor XII. [J Thromb Haemost. 14 \(5\): 995-1007.](#)
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Further Reading

1. Kruskal, J.B. *et al.* (1992) Elevated fibrin-related and fibrinogen-related antigens in patients with liver disease. [Hepatology. 16 \(4\): 920-3.](#)
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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.

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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: https://www.bio-rad-antibodies.com/SDS/MCA2523 10040 |
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| Regulatory | For research purposes only |
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Related Products

Recommended Secondary Antibodies

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|---|---|
| Rabbit Anti Mouse IgG (STAR12...) | RPE |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | Alk. Phos. , HRP |
| Goat Anti Mouse IgG (STAR76...) | RPE |
| Rabbit Anti Mouse IgG (STAR13...) | HRP |
| 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 (Fc) (STAR120...) | FITC , HRP |
| Goat Anti Mouse IgG (STAR77...) | HRP |

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

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