

Datasheet: MCA2153GA

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| Description: | MOUSE ANTI HUMAN CD281 |
| Specificity: | CD281 |
| Other names: | TLR1 |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | GD2.F4 |
| 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 - 1/100 |
| Immunohistology - Frozen | | | ▪ | |
| 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.

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| Target Species | Human |
| Product Form | Purified IgG - liquid |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | <0.1% Sodium Azide (NaN ₃) |
| Approx. Protein Concentrations | IgG concentration 0.5 mg/ml |
| Immunogen | CD281 (TLR1) Fc fusion protein. |

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| External Database Links | <p>UniProt: Q15399 Related reagents</p> <p>Entrez Gene: 7096 TLR1 Related reagents</p> |
| Synonyms | KIAA0012 |
| RRID | AB_2204274 |
| Fusion Partners | Spleen cells from immunised mice where fused with cells of the NS0/1 myeloma cell line. |
| Specificity | <p>Mouse anti Human CD281 antibody, clone GD2.F4 recognizes human Toll-like receptor 1, also known as CD281 or Toll/interleukin-1 receptor-like protein. CD281 is a 786 amino acid ~90 kDa single pass type 1 transmembrane glycoprotein protein expressed by peripheral blood leukocytes and in tissues such as, spleen and thymus.</p> <p>CD281 plays an important role in the innate immune response to microbial pathogens (Netea <i>et al.</i> 2004).</p> <p>Mouse anti Human CD281 antibody, clone GD2.F4 does not cross react with CD282 (TLR2), CD284 (TLR4) or TLR4/MD-2.</p> |
| Flow Cytometry | Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul. |
| References | <ol style="list-style-type: none"> 1. Visintin, A. <i>et al.</i> (2001) Regulation of Toll-like receptors in human monocytes and dendritic cells. J Immunol. 166 (1): 249-55. 2. Klaffenbach, D. <i>et al.</i> (2005) Regulation and signal transduction of toll-like receptors in human chorioncarcinoma cell lines. Am J Reprod Immunol. 53 (2): 77-84. 3. Uciechowski, P. <i>et al.</i> (2011) Susceptibility to tuberculosis is associated with TLR1 polymorphisms resulting in a lack of TLR1 cell surface expression. J Leukoc Biol. 90 (2): 377-88. 4. Dreschler, K. <i>et al.</i> (2011) Impact of immunotherapy on blood dendritic cells in patients with Hymenoptera venom allergy. J Allergy Clin Immunol. 127 (2): 487-494.e1-3. |
| Storage | <p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p> |
| Guarantee | 12 months from date of despatch |
| Health And Safety Information | Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf |

Related Products

Recommended Secondary Antibodies

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| Goat Anti Mouse IgG (STAR77...) | HRP |
| Rabbit Anti Mouse IgG (STAR12...) | RPE |
| Rabbit Anti Mouse IgG (STAR8...) | DyLight@800 |
| Goat Anti Mouse IgG (STAR76...) | RPE |
| Goat Anti Mouse IgG (Fc) (STAR120...) | FITC , HRP |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | Alk. Phos. , HRP |
| Rabbit Anti Mouse IgG (STAR13...) | HRP |
| Goat Anti Mouse IgG (STAR70...) | FITC |
| Rabbit Anti Mouse IgG (STAR9...) | FITC |
| Goat Anti Mouse IgG (H/L) (STAR117...) | Alk. Phos. , DyLight@488 , DyLight@550 , DyLight@650 , 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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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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