

Datasheet: MCA2627

| Description: | MOUSE ANTI HUMAN CD274 |
|---------------|------------------------|
| Specificity: | CD274 |
| Other names: | PD-L1 |
| Format: | Purified |
| Product Type: | Monoclonal Antibody |
| Clone: | MIH2 |
| Isotype: | lgG1 |
| 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 <u>www.bio-rad-antibodies.com/protocols</u>.

| | | Yes | No | Not Determined | Suggested Dilution |
|-----------------------------|---|-------------------|------------|------------------------|---------------------------|
| | Flow Cytometry | | | | 1/20 - 1/200 |
| | Immunohistology - Frozen | | | • | |
| | Immunohistology - Paraffin | | | • | |
| | ELISA | | | • | |
| | Immunoprecipitation | | | • | |
| | Western Blotting | | | • | |
| | Functional Assays | | | | |
| | Where this product has r | not been te | sted for u | se in a particular tec | hnique this does not |
| | necessarily exclude its u | se in such | procedure | es. Suggested worki | ng dilutions are given as |
| | a guide only. It is recomm | nended that | at the use | titrates the product | for use in their own |
| | system using appropriate | | | • | |
| | -) | | | | |
| 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 salin | e | | | |
| Preservative Stabilisers | 0.09% Sodium Azide (Na | aN ₃) | | | |

| Carrier Free | Yes |
|-----------------------------------|---|
| Approx. Protein Concentrations | IgG concentration 1.0mg/ml |
| Immunogen | Human CD274 transfected P815 cells. |
| External Database Links | UniProt: <u>Q9NZQ7</u> <u>Related reagents</u> Entrez Gene: |
| | 29126 CD274 Related reagents |
| Synonyms | B7H1, PDCD1L1, PDCD1LG1, PDL1 |
| RRID | AB_1510067 |
| Fusion Partners | Cells from immunised mice were fused with cells of the P3U1 myeloma cell line. |
| Specificity | Mouse anti Human CD274 antibody, clone MIH2 detects human CD274, also known as B7-H1 and PD-1L, a cell surface glycoprotein which is a member of the B7 family of co-stimulatory molecules. CD274 is expressed constitutively on macrophages and dendritic cells, and is induced on activated T-cells, B-cells, endothelial cells and epithelial cells in response to Interferons alpha, beta and gamma. CD274 is reported to possess dual functions; inhibition of activated effector T cells and co-stimulation of naïve T cells. CD274 inhibits proliferation of activated T cells via ligation to the co-inhibitory molecule CD279 (programmed death-1; PD-1) leading to the secretion of the regulatory cytokine interleukin-10. CD274 has also been shown to costimulate early T cell priming and differentiation. Deregulated CD274 function has been reported in chronic viral and intracellular bacterial infection, as well as in many autoimmune diseases and cancers. |
| Flow Cytometry | Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul. |
| References | Kanai, T. <i>et al.</i> (2003) Blockade of B7-H1 suppresses the development of chronic intestinal inflammation. <u>J Immunol. 171 (8): 4156-63.</u> Darmochwal-Kolarz, D. <i>et al.</i> (2013) The expressions of co-stimulatory molecules are altered on putative antigen-presenting cells in cord blood. <u>Am J Reprod Immunol. 69 (2): 180-7.</u> |
| Storage | Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. |

| Guarantee | 18 months from date of despatch. |
|----------------------------------|--|
| Health And Safety Information | Material Safety Datasheet documentation #10040 available at: 10040: <u>https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</u> |
| Regulatory | For research purposes only |

Related Products

Recommended Secondary Antibodies

| Goat Anti Mouse IgG IgA IgM (STAR87) <u>Alk. Phos.</u> , <u>HRP</u> | | | |
|---|---|--|--|
| 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) | <u>FITC</u> | | |
| Goat Anti Mouse IgG (Fc) (STAR120) | <u>FITC</u> , <u>HRP</u> | | |
| Rabbit Anti Mouse IgG (STAR9) | <u>FITC</u> | | |
| Goat Anti Mouse IgG (H/L) (STAR117) | <u>Alk. Phos., DyLight®488</u> , <u>DyLight®680,</u> <u>DyLight®800</u> , <u>FITC, HRP</u> | | |

Recommended Negative Controls

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@bio | -rad.com | Email: antibody_sales_uk@bio | -rad.com | Email: antibody_sales_de@bio-rad.com |

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