

## Datasheet: MCA6132SBUV540

|                      |   |
|----------------------|---|
| <b>Description:</b>  | MOUSE ANTI HUMAN CD274:StarBright UltraViolet 540 |
| <b>Specificity:</b>  | CD274   |
| <b>Other names:</b>  | PD-L1   |
| <b>Format:</b>       | StarBright UltraViolet 540                        |
| <b>Product Type:</b> | Monoclonal Antibody                               |
| <b>Clone:</b>        | 29E.2A3   |
| <b>Isotype:</b>      | IgG2b   |
| <b>Quantity:</b>     | 100 TESTS/0.5ml                                   |

### 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](http://www.bio-rad-antibodies.com/protocols).

|                | Yes | No | Not Determined | Suggested Dilution |
|----------------|-----|----|----------------|--------------------|
| Flow Cytometry | ▪   |    |                | Neat               |

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.

#### Target Species

Human

#### Species Cross Reactivity

Reacts with: Primate

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

#### Product Form

Purified IgG conjugated to StarBright UltraViolet 540 - liquid

#### Max Ex/Em

| Fluorophore                | Excitation Max (nm) | Emission Max (nm) |
|----------------------------|---------------------|-------------------|
| StarBright UltraViolet 540 | 338                 | 540               |

#### Preparation

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

|                                       |   |
|---------------------------------------|---|
| <b>Buffer Solution</b>                | Phosphate buffered saline   |
| <b>Preservative</b>                   | 0.09% Sodium Azide (NaN <sub>3</sub> )  |
| <b>Stabilisers</b>                    | 1% Bovine Serum Albumin<br>0.1% Pluronic F68<br>0.1% PEG 3350<br>0.05% Tween 20   |
| <b>Approx. Protein Concentrations</b> | For information on the concentration of our StarBright Dye conjugated reagents please visit our <a href="#">FAQ</a> page.   |
| <b>Immunogen</b>                      | Full length human CD274   |
| <b>External Database Links</b>        | <p><b>UniProt:</b><br/> <a href="#">Q9NZQ7</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">29126</a>    CD274    <a href="#">Related reagents</a></p>   |
| <b>Synonyms</b>                       | B7H1, PDCD1L1, PDCD1LG1, PDL1   |
| <b>Specificity</b>                    | <p><b>Mouse anti Human CD274 antibody, clone 29E.2A3</b> detects human <a href="#">CD274</a>, 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.</p> <p>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 co-stimulate early T cell priming and differentiation.</p> <p>Deregulated CD274 function has been reported in chronic viral and intracellular bacterial infection, as well as in many autoimmune diseases and cancers.</p> |
| <b>Flow Cytometry</b>                 | Use 5µl of the suggested working dilution to label 0.5x10 <sup>6</sup> cells in 100µl. Best practices suggest a 5 min centrifugation at 6,000g prior to sample application.   |
| <b>Storage</b>                        | Store at +4°C. DO NOT FREEZE.<br>This product should be stored undiluted.   |
| <b>Guarantee</b>                      | 12 months from date of despatch   |
| <b>Acknowledgements</b>               | This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts   |

**Health And Safety  
Information**

Material Safety Datasheet documentation #20471 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA6132SBUV540>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

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

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