

Datasheet: MCA6329

**BATCH NUMBER 171297**

<b>Description:</b>	RABBIT ANTI CD274
<b>Specificity:</b>	CD274
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	RM320
<b>Isotype:</b>	IgG
<b>Quantity:</b>	0.1 ml

## 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
Immunohistology - Paraffin	▪			1/200 - 1/1000
Western Blotting	▪			1/500 - 1/1000
Immunocytochemistry	▪			1/200 - 1/500

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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography of Protein A from animal origin-free culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide 1% Bovine Serum Albumin 50% Glycerol
<b>Immunogen</b>	A peptide corresponding to the C-terminus of Human CD274

**External Database  
Links**

**UniProt:**

[Q9EP73](#) [Related reagents](#)

**Entrez Gene:**

[60533](#) Cd274 [Related reagents](#)

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**Synonyms**

B7h1, Pdcd1l1, Pdcd1lg1, Pdl1

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**Specificity**

**Rabbit anti Human CD274 antibody** recognizes programmed cell death 1 ligand 1 (PD-L1), also known as B7-H1. CD274 is a cell-surface glycoprotein induced by cytokines, importantly interferon gamma from T helper cells under inflammatory conditions ([Inaguma et al. 2017](#)). CD274 is expressed in a range of tissues, but mostly in activated T and B lymphocyte cells, dendritic cells, and monocytes ([Fabrizio et al. 2018](#)). CD274 is an inhibitory immune checkpoint inhibitor which plays a role in maintaining peripheral T-lymphocyte tolerance and regulating inflammation (Schutz et al. 2017). Constitutive upregulation of CD274 has been identified in solid tumors ([Franzen et al. 2017](#)), and expression of CD274 in the tumor microenvironment appears to be one of the main mechanisms in which cancer can evade the immune system via inhibiting anti-tumor T-cell immunity ([Zou et al. 2016](#)).

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**Storage**

Store at -20°C only.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use

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**Guarantee**

12 months from date of despatch

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10048 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA6329>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)  
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Sheep Anti Rabbit IgG (STAR36...) [DyLight@488](#), [DyLight@680](#), [DyLight@800](#)

**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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