

## Datasheet: MCA4624GA

**BATCH NUMBER 155884**

<b>Description:</b>	MOUSE ANTI HUMAN CD279
<b>Specificity:</b>	CD279
<b>Other names:</b>	PD-1
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	4F12
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			1/500 - 1/1000

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 on Protein G
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.02% Sodium Azide (NaN <sub>3</sub> ) 10% Glycerol

<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Recombinant human CD279 (amino acids 21-167) purified from <i>Escherichia coli</i> .
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q15116</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">5133</a>    PDCD1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	PD1
<b>RRID</b>	AB_1510076
<b>Fusion Partners</b>	Spleen cells from immunised Balb/c mice were fused with cells of the mouse FO myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Human CD279, clone 4F12</b> recognizes human CD279, otherwise known as PD-1/PDCD1, a type I transmembrane glycoprotein and member of the Ig superfamily, which acts as a co-stimulatory molecule and negative regulator of T-cell activation (<a href="#">Patsoukis et al. 2012</a>).</p> <p>CD279 is an immunoinhibitory receptor which interacts with its ligands CD274 (PD-L1) and CD273 (PD-L2) to inhibit the activation and proliferation of T and B cells. CD279 is associated with regulating peripheral tolerance of T cells and preventing autoimmunity and autoimmune diseases, including type I diabetes and rheumatoid arthritis (<a href="#">Okazaki et al. 2005</a>).</p>
<b>Western Blotting</b>	MCA4624GA detects a band of approximately 32-36 kDa in 293T and U937 cell lysates.
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10049 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA4624GA">https://www.bio-rad-antibodies.com/SDS/MCA4624GA</a> 10049
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)  
Goat Anti Mouse IgG IgA IgM (STAR87...) [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 (STAR77...) [HRP](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

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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://bio-rad-antibodies.com/datasheets)  
'M367726:200529'

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