

Datasheet: MCA4624GA

BATCH NUMBER 145228

Description:	MOUSE ANTI HUMAN CD279
Specificity:	CD279
Other names:	PD-1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	4F12
Isotype:	IgG2b
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			▪	
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.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide (NaN ₃) 10% Glycerol

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Recombinant human CD279 (amino acids 21-167) purified from <i>Escherichia coli</i> .
External Database Links	<p>UniProt: Q15116 Related reagents</p> <p>Entrez Gene: 5133 PDCD1 Related reagents</p>
Synonyms	PD1
RRID	AB_1510076
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the mouse FO myeloma cell line.
Specificity	<p>Mouse anti Human CD279, clone 4F12 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 (Patsoukis et al. 2012).</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 (Okazaki et al. 2005).</p>
Western Blotting	MCA4624GA detects a band of approximately 32-36 kDa in 293T and U937 cell lysates.
Storage	<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>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10049 available at: https://www.bio-rad-antibodies.com/SDS/MCA4624GA 10049
Regulatory	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
 'M367726:200529'

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