Datasheet: MCA4624GA

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 *Escherichia coli*.
External Database Links	**UniProt:**

Q15116 Related reagents

Entrez Gene:

5133 PDCD1 Related reagents

Synonyms	PD1
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the mouse FO myeloma cell line.
Specificity	**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). 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).
Western Blotting	MCA4624GA detects a band of approximately 32-36 kDa in 293T and U937 cell lysates.
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.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10049 available at: 10049: https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos., HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800, FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG2b (HCA038...)	FITC, HRP

Recommended Negative Controls

North & South America
Tel: +1 800 265 7376
Fax: +1 919 878 3751
Email: antibody_sales_us@bio-rad.com

Worldwide
Tel: +44 (0)1865 852 700
Fax: +44 (0)1865 852 739
Email: antibody_sales_uk@bio-rad.com

Europe
Tel: +49 (0) 89 8090 95 21
Fax: +49 (0) 89 8090 95 50
Email: antibody_sales_de@bio-rad.com

'M288373:160607'

Printed on 30 Apr 2018