

Datasheet: AHP1705 BATCH NUMBER 158368

Description:RABBIT ANTI HUMAN CD279 (C-TERMINAL)Specificity:CD279 (C-TERMINAL)Other names:PD-1Format:PurifiedProduct Type:Polyclonal AntibodyIsotype:Polyclonal IgGQuantity:0.1 mg		
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Isotype: Polyclonal IgG	Format:	Purified
	Product Type:	Polyclonal Antibody
Quantity: 0.1 mg	Isotype:	Polyclonal IgG
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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 <u>www.bio-rad-antibodies.com/protocols</u> .					
		Yes	Νο	Not Determined	Suggested Dilution	
	Immunohistology - Paraffin (1)	•			2.5ug/ml	
	Western Blotting	-			0.5 - 1.0ug/ml	
	Where this product has r	ot been te	ested for u	se in a particular tech	nnique 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				for use in their own		
	system using appropriate negative/positive controls.					
	(1)This product require paraffin sections.Sodiu	•		•		
Target Species	Human					
Species Cross	Reacts with: Mouse					
Reactivity	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 - liquid					
Antiserum Preparatio	n Antisera to Human CD27 purified antigen. Purified					

Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.02% Sodium Azide (NaN ₃)		
Approx. Protein Concentrations	IgG concentration 1.0mg/ml		
Immunogen	A peptide corresponding to a 16 amino acid sequence from near the carboxy terminus of Human CD279.		
External Database Links	UniProt: Q15116 Related reagents Entrez Gene: 5133 PDCD1 Related reagents		
Synonyms	PD1		
RRID	AB_2159159		
Specificity	 Rabbit anti Human CD279 antibody detects CD279, a co-stimulatory molecule also known as programmed cell death-1 (PD-1). CD279 is a single-pass type 1 membrane protein belonging to the CD28 family, and functions mainly as a negative regulator of T-cell activation. CD279 has two specific ligands; CD274 (PD-L1) and CD273 (PD-L2), and their interaction is key in the balance between stimulatory and inhibitory signals needed for effective immune responses to microbes and self-tolerance. CD279 is inducibly expressed by T-cells, B-cells, NK-T-cells and monocytes upon activation. Loss of CD279 function has been associated with a number of autoimmune diseases, including rheumatoid arthritis, type I diabetes and ankylosing spondylitis. CD279 could be targeted therapeutically in the treatment of HIV infection to reduce T-cell exhaustion (Freeman <i>et al.</i> 2006). 		
Histology Positive Control Tissue	Human brain tissue		
Western Blotting	AHP1705 detects a band of approximately 45kDa in THP-1 cell lysate		
Further Reading	 Menke, J. <i>et al.</i> (2007) Programmed death 1 ligand (PD-L) 1 and PD-L2 limit autoimmune kidney disease: distinct roles. J Immunol. 179: 7466-77. Ishida, Y. <i>et al.</i> (1992) Induced expression of PD-1, a novel member of the immunoglobulin gene superfamily, upon programmed cell death. EMBO J. 11 (11): <u>3887-95.</u> Zhong, X. et al. (2004) Suppression of expression and function of negative immune regulator PD-1 by certain pattern recognition and cytokine receptor signals associated with immune system danger. Int. Immunol. 16:1181-8 Nishimura, H. <i>et al.</i> (1999) Development of lupus-like autoimmune diseases by the 		

	disruption of the PD-1 gene encoding an ITIM motif-carrying in <u>11:141-51.</u>	nmunoreceptor. <u>Immunity</u>	
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store a -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C fo short term use (up to 4 weeks) and store the remaining aliquots at -20°C.		
	Avoid repeated freezing and thawing as this may denature the frost-free freezers is not recommended.	antibody. Storage in	
Guarantee	12 months from date of despatch		
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/AHP1705 10040		
Regulatory	For research purposes only		

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR54...) HRP

Recommended Useful Reagents

ANTIGEN RETRIEVAL BUFFER, pH8.0 (BUF025A) TidyBlot WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bic	-rad.com	Email: antibody_sales_uk@bic	-rad.com	Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M382698:210513'

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