

Datasheet: MCA2255XZ

Description:	RAT ANTI HUMAN CDw210a:Preservative Free
Specificity:	CDw210a
Other names:	IL-10R1
Format:	Preservative Free
Product Type:	Monoclonal Antibody
Clone:	3F9
Isotype:	IgG2a
Quantity:	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 (1)	■			1/100 - 1/200
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
ELISA			■	
Immunoprecipitation			■	
Western Blotting			■	
Functional Assays	■			

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

(1) **Due to low expression of CDw210a, sensitive staining techniques may be required.**

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

Immunogen	Soluble human CDw210a
External Database Links	UniProt: Q13651 Related reagents Entrez Gene: 3587 IL10RA Related reagents
Synonyms	IL10R
Fusion Partners	Spleen cells from immunised Fisher rats were fused with cells of the mouse SP2/0 myeloma cell line.
Specificity	Rat anti Human CDw210a, clone 3F9 recognizes human CDw210a, a 90-110kD glycoprotein, also known as Interleukin-10 receptor 1 (IL-10R1). CDw210a is expressed on T cells, NK cells, monocytes and dendritic cells, although surface expression may be low. Recent work has reported an increase in intracellular expression of CDw210a during dendritic cell maturation, but a reduction in surface CDw210a expression, see Corinti, S. et al. for details. This clone is reported to function as a blocking antibody. Bio-Rad recommend the use of MCA2255XZ for functional studies, see Liu, Y. et al. for details.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
References	1. Liu, Y. <i>et al.</i> (1997) The EBV IL-10 homologue is a selective agonist with impaired binding to the IL-10 receptor. J Immunol. 158 (2): 604-13. 2. O'Farrell, A.M. <i>et al.</i> (1998) IL-10 inhibits macrophage activation and proliferation by distinct signaling mechanisms: evidence for Stat3-dependent and -independent pathways. EMBO J. 17 (4): 1006-18. 3. Corinti, S. <i>et al.</i> (2001) Regulatory activity of autocrine IL-10 on dendritic cell functions. J Immunol. 166 (7): 4312-8. 4. Elbim, C. <i>et al.</i> (2001) Intracellular pool of IL-10 receptors in specific granules of human neutrophils: differential mobilization by proinflammatory mediators. J Immunol. 166 (8): 5201-7. 5. Fayette, J. <i>et al.</i> (1997) Human dendritic cells skew isotype switching of CD40-activated naive B cells towards IgA1 and IgA2. J Exp Med. 185 (11): 1909-18. 6. Goodier, M.R. & Londei, M. (2000) Lipopolysaccharide stimulates the proliferation of human CD56+CD3- NK cells: a regulatory role of monocytes and IL-10. J Immunol. 165 (1): 139-47. 7. Levings, M.K. <i>et al.</i> (2001) IFN-alpha and IL-10 induce the differentiation of human type 1 T regulatory cells. J Immunol. 166 (9): 5530-9. 8. Hamel, Y. <i>et al.</i> (2016) A unique CD8(+) T lymphocyte signature in pediatric type 1 diabetes. J Autoimmun. 73: 54-63.
Storage	Store at -20°C only. This product should be stored undiluted. Storage in frost-free freezers is not recommended. 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 #10162 available at:
10162: <https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®649 , DyLight®800
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP

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