

Datasheet: MCA2629A647

Description:	MOUSE ANTI HUMAN CD275:Alexa Fluor® 647
Specificity:	CD275
Other names:	B7-H2
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	MIH11
Isotype:	IgG1
Quantity:	100 TESTS/1ml

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	▪			Neat - 1/10

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 conjugated to Alexa Fluor® 647 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®647	650	665
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)		
	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.05mg/ml		

Immunogen	CD275 - L cells.
External Database Links	<p>UniProt: O75144 Related reagents</p> <p>Entrez Gene: 23308 ICOSLG Related reagents</p>
Synonyms	B7H2, B7RP1, ICOSL, KIAA0653
RRID	AB_1125247
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the P3U1 myeloma cell line.
Specificity	<p>Mouse anti Human CD275 antibody, clone MIH11 detects CD275, also known as ICOS ligand (inducible T cell co-stimulator ligand). CD275 is a member of the B7 family, and interaction with its receptor CD278 (ICOS) plays an important role in T cell co-stimulation and inflammatory immune reactions.</p> <p>CD275 is expressed on activated B-cells, monocytes and dendritic cells and is also induced on non-lymphoid tissue cells such as endothelial cells, epithelial cells and muscle cells. CD275 has an important physiological role in the reactivation of effector/memory T cells on the endothelium, thus controlling entry of immune cells into inflamed tissue.</p> <p>The CD278-CD275 pathway is thought to be critical in the immune response to transplants, allergies and autoimmune diseases.</p> <p>Mouse anti Human CD275 antibody, clone MIH11 is reported to partially block the interaction between CD275 and CD278.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.
References	1. Youngnak-Piboonratanakit, P. <i>et al.</i> (2006) Expression and regulation of human CD275 on endothelial cells in healthy and inflamed mucosal tissues. Scand J Immunol. 63 (3): 191-8.
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. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	18 months from date of despatch.
Acknowledgements	This product is provided under an intellectual property licence from Life Technologies

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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA928A647\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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