Datasheet: MCA2465F

BATCH NUMBER 170158

Description:	RAT ANTI MOUSE CD273:FITC
Specificity:	CD273
Other names:	PD-L2
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	TY25
Isotype:	IgG2a
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	▪			Neat - 1/5

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.

Target Species

Mouse

Product Form

Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
FITC	490	525

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
1% Bovine Serum Albumin

Approx. Protein

IgG concentration 0.1 mg/ml

Concentrations	
Immunogen	B7-DC transfected RAW264.7 cells.
External Database Links	**UniProt:** Q9WUL5 Related reagents **Entrez Gene:** 58205 Pdcd1lg2 Related reagents
Synonyms	B7dc, Btdc, Cd273, Pdl2
RRID	AB_905916
Fusion Partners	Lymph node cells from immunized SD rats were fused with the cells of the P3U1 myeloma cell line.
Specificity	**Rat anti Mouse CD273 antibody, clone TY25** recognises mouse CD273, also known as B7-dendritic cell (B7-DC), or programmed death ligand-2 (PD-L2). CD273 is a 247 amino acid, ~42 kDa member of the B7 family. The expression of CD273 is restricted to a subpopulation of dendritic cells (DCs), and DCs and macrophages that have been stimulated with interferon gamma, GM-CSF or IL-4. CD273 has been identified as a ligand for PD-1(CD279), along with another B7 family member B7-H1 (CD274). CD273 and B7-H1 co-stimulate or inhibit T cell proliferation and cytokine production (Schmidt *et al.*2015). **Rat anti Mouse CD273 antibody, clone TY25** is reported to block the binding of CD273 (B7-DC) to it's receptor (Matsumoto *et al.* 2004).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells in 100ul. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR.
References	1. Kanai, T. *et al.* (2003) Blockade of B7-H1 suppresses the development of chronic intestinal inflammation. J Immunol. 171 (8): 4156-63. 2. Matsumoto, K. *et al.* (2004) B7-DC regulates asthmatic response by an IFN-gamma-dependent mechanism. J Immunol. 172 (4): 2530-41. 3. Yamazaki, T. *et al.* (2005) Blockade of B7-H1 on macrophages suppresses CD4+ T cell proliferation by augmenting IFN-gamma-induced nitric oxide production. J Immunol. 175: 1586-92. 4. Furuhashi K *et al.* (2012) Mouse lung CD103+ and CD11b high dendritic cells preferentially induce distinct CD4+ T-cell responses. Am J Respir Cell Mol Biol. 46 (2): 165-72. 5. Lopez-Medina, M. *et al.* (2015) Salmonella induces PD-L1 expression in B cells. Immunol Lett. 167 (2): 131-40. 6. López-Medina, M. *et al.* (2015) Salmonella impairs CD8 T cell response through PD-1:

	PD-L axis. Immunobiology. 220 (12): 1369-80.
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for 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 antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2465F
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

RAT IgG2a NEGATIVE CONTROL:FITC (MCA1212F)

Recommended Useful Reagents

MOUSE SEROBLOCK FcR (BUF041A)
MOUSE SEROBLOCK FcR (BUF041B)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M385430:210513'

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