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ProSci Incorporated
12170 Flint Place
Poway, CA 92064

Toll Free: +1 (888) 513 9525
Local: +1 (858) 513 2638
Fax: +1 (858) 513 2692

techsupport@prosci-inc.com

CD274 Antibody [10F.9G2] (PE)

CATALOG NUMBER: 76-960

Specifications

SPECIES REACTIVITY:	Mouse
TESTED APPLICATIONS:	FACS
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
SPECIFICITY:	The 10F.9G2 monoclonal antibody specifically reacts with mouse CD274, also known as B7-H1 or PD-L1, a 43 kDa glycoprotein of the B7 family of the immunoglobulin superfamily.
HOST SPECIES:	Rat

Properties

PURIFICATION:	The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.
PHYSICAL STATE:	liquid
BUFFER:	Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, ph7.2.
CONCENTRATION:	0.2 mg/mL
STORAGE CONDITIONS:	The product should be stored undiluted at 4˚C and should be protected from prolonged exposure to light. Do not freeze.
CLONALITY:	Monoclonal
ISOTYPE:	Rat IgG2b, kappa
CONJUGATE:	PE

Additional Info

ALTERNATE NAMES:	B7-H, B7H1, PDL1, PD-L1, PDCD1L1, PDCD1LG1, CD274
OFFICIAL SYMBOL:	CD274
GENE ID:	29126

Background

BACKGROUND:	The 10F.9G2 monoclonal antibody specifically reacts with mouse CD274, also known as B7-H1 or PD-L1, a 43 kDa glycoprotein of the B7 family of the immunoglobulin superfamily. CD274 is expressed on the B and T lymphocytes, natural killer cells, and dendritic cells. The receptor for the B7-H1 molecule is PD-1, which contains an Immunoreceptor Tyrosine-based Inhibitory Motif (ITIM), and is expressed on activated B and T cells. The interaction between CD274 and PD-1 seems to downregulate the T and B immune responses.
REFERENCES:	1) Akashi, S., Ogata, H., Kirikae, F., Kirikae, T., Kawasaki, K., Nishijima, M., ... Miyake, K. (2000). Regulatory roles for CD14 and phosphatidylinositol in the signaling via toll-like receptor 4-MD-2.Biochemical and biophysical research communications,268(1), 172-177.
	2) Shimazu, R., Akashi, S., Ogata, H., Nagai, Y., Fukudome, K., Miyake, K., Kimoto, M. (1999). MD-2, a molecule that confers lipopolysaccharide responsiveness on Toll-like receptor 4.The Journal of experimental medicine,189(11), 1777-1782.
	3) Mirlashari, M. R., Lyberg, T. (2003). Expression and involvement of Toll-like receptors (TLR) 2, TLR4, and CD14 in monocyte TNF-alpha production induced by lipopolysaccharides from Neisseria meningitidis.Medical