CD273 (B7-DC) Monoclonal Antibody (TY25), PE, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotope	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	TY25
Conjugate	PE
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_466097

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	25 Publications
Immunofluorescence (IF)	-	1 Publication

Product Specific Information

Description: The TY25 monoclonal antibody reacts with mouse B7-DC/PD-L2. B7-DC, a member of the B7 family, has a predicted molecular weight of ~25 kDa and belongs to the Ig superfamily. The mouse B7-DC has a short cytoplasmic tail (4aa). B7-DC is primarily expressed by sub-populations of dendritic cells, monocytes and macrophages. Although B7-DC has structural and sequence similarities to the B7 family, it does not bind CD28/CTLA-4, but binds PD-1. The interactions between PD-1 and B7-DC /PD-L2 have been reported to be involved in costimulation or suppression of T cell proliferation depending on state of cellular activation. TY25 is a useful tool to study the exact function of B7-DC/PD-L2 in APC/T cell interaction and to characterize the expression pattern of this molecule in mouse.

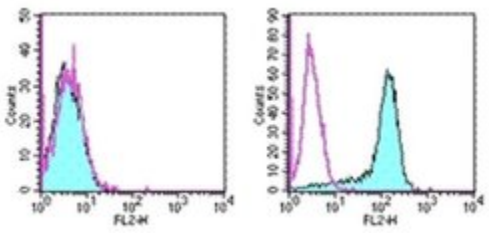
Applications Reported: The TY25 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The TY25 antibody has been tested by flow cytometric analysis of mouse splenocytes and B7-DC transfected cells. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD273 (B7-DC) Monoclonal Antibody (TY25), PE, eBioscience™



CD273 (B7-DC) Antibody (12-5986-82) in Flow
Staining of non-transfected (left) and mouse B7-DC-transfected (right) cells with 0.25 µg of Rat IgG2a kappa Isotype Control PE (Product # 12-4321-80) (open histogram) or 0.06 µg of Anti-Mouse CD273 (B7-DC) PE (filled histogram). Total viable cells were used for analysis.

26 References

Flow Cytometry (25)

Journal of leukocyte biology

Recruited monocytes modulate malaria-induced lung injury through CD36-mediated clearance of sequestered infected erythrocytes.

Authors: Lagassé HA,Anidi IU,Craig JM,Limjunyawong N,Poupore AK,Mitzner W,Scott AL

Species
Mouse

Dilution
Not Cited

Year
2016

Nature immunology

Production of IL-10 by CD4(+) regulatory T cells during the resolution of infection promotes the maturation of memory CD8(+) T cells.

"12-5986 was used in Flow cytometry/Cell sorting to that Treg cell-derived IL-10 is needed to insulate, and promote the quality of, developing CD8(+) T cells."

Authors: Laidlaw BJ,Cui W,Amezquita RA,Gray SM,Guan T,Lu Y,Kobayashi Y,Flavell RA,Kleinstein SH,Craft J,Kaech SM

Species
Mouse
Not Applicable

Dilution
Not Cited
Not Cited

Year
2015

View more Flow references on thermofisher.com

Immunofluorescence (1)

Journal of immunology (Baltimore, Md. : 1950)

Programmed death-1 pathway in host tissues ameliorates Th17/Th1-mediated experimental chronic graft-versus-host disease.

"12-5986 was used in Flow cytometry/Cell sorting to clarify that programed death-ligand 1 deficiency in host tissues, not hematopoietic cells, is associated with exacerbated chronic graft-versus-host disease."

Authors: Fujiwara H,Maeda Y,Kobayashi K,Nishimori H,Matsuoka K,Fujii N,Kondo E,Tanaka T,Chen L,Azuma M,Yagita H,Tanimoto M

Species
Mouse

Dilution
Not Cited

Year
2014

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