

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

## Product Details

Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	TY25
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_466097

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	30 Publications

## 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.

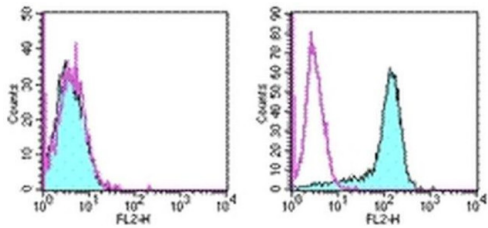
**Applications Reported:** The TY25 antibody has been reported for use in flow cytometric analysis.

**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<sup>4</sup> to 10<sup>8</sup> 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.

31 References

Immunocytochemistry (1)

<p><b>Journal of immunology</b> (Baltimore, Md. : 1950)</p> <p><b>Programmed death-1 pathway in host tissues ameliorates Th17/Th1-mediated experimental chronic graft-versus-host disease.</b></p> <p>"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."</p> <p>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</p>	<p><b>Year</b> 2014</p> <p><b>Species</b> Mouse</p>
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Flow Cytometry (30)

<p><b>Frontiers in immunology</b></p> <p><b>Intestinal CD11b<sup>+</sup> B Cells Ameliorate Colitis by Secreting Immunoglobulin A.</b></p> <p>"12-5986-82 was used in Flow Cytometry to demonstrate that CD11b<sup>+</sup> B cells are essential intestinal suppressive immune cells and the primary source of intestinal IgA, which plays an indispensable role in maintaining intestinal homeostasis."</p> <p>Authors: Fu Y, Wang Z, Yu B, Lin Y, Huang E, Liu R, Zhao C, Lu M, Xu W, Liu H, Liu Y, Wang L, Chu Y</p>	<p><b>Year</b> 2022</p> <p><b>Species</b> Mouse</p>
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<p><b>Immunity</b></p> <p><b>Liver Is a Generative Site for the B Cell Response to Ehrlichia muris.</b></p> <p>"12-5986-82 was used in Flow Cytometry to investigate the nature of liver B cell and spleen response to Ehrlichia muris."</p> <p>Authors: Trivedi N, Weisel F, Smita S, Joachim S, Kader M, Radhakrishnan A, Clouser C, Rosenfeld AM, Chikina M, Vigneault F, Hershberg U, Ismail N, Shlomchik MJ</p>	<p><b>Year</b> 2019</p> <p><b>Species</b> Mouse</p>
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