

# 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.

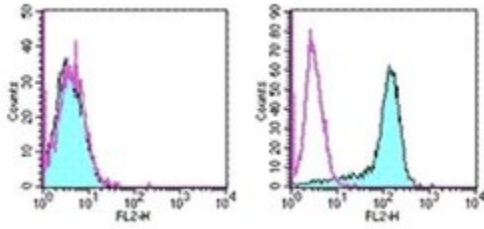
**Applications Reported:** The TY25 antibody has been reported for use in flow cytometric analysis.

**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<sup>5</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.

## 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, Amezcua 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 programmed 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

### More applications with references on thermofisher.com

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.