

TECHNICAL DATA SHEET

# Purified Anti-Mouse CD273 (PD-L2, B7-DC) (TY25)

Catalog Number: 70-5986

## PRODUCT INFORMATION

**Contents:** Purified Anti-Mouse CD273 (PD-L2, B7-DC) (TY25)

**Isotype:** Rat IgG2a, kappa

**Concentration:** 0.5 mg/mL

**Clone:** TY25

**Reactivity:** Mouse

**Formulation:** 10 mM NaH<sub>2</sub>PO<sub>4</sub>, 150 mM NaCl, 0.09% Na<sub>3</sub>N, pH7.2

## DESCRIPTION

The TY25 antibody is specific for mouse CD273, more commonly known as PD-L2 or B7-DC, a 25 kDa protein which acts as a ligand for the T cell co-regulatory receptor PD-1 (CD279). This interaction modulates T cell antigen receptor (TCR) signaling and therefore T cell activation. PD-L2 binding to PD-1 expressed on CD4-CD8<sup>-</sup> thymocytes participates in the processes of clonal selection, elimination of autoreactive lymphocytes, and development of tolerance. PD-L2 may also bind PD-1 following the receptor's inducible expression on activated, mature T cells, where it has been proposed to limit T cell activation. PD-L2 is one of a group of "B7" ligands whose interactions with the CD28 receptor family, also including CTLA-4 (CD152), provide a balance of co-stimulatory /co-inhibitory signaling important in T cell activation, tolerance, and autoimmunity. The TY25 antibody may be used as a marker for PD-L2 expression in mouse, primarily on monocytes, macrophages and subsets of dendritic cells. The antibody is also widely used for analysis of receptor-ligand interaction and function(s) in vitro and in vivo.

## PREPARATION & STORAGE

This monoclonal antibody preparation was purified from tissue culture supernatant via affinity chromatography. For In Vivo Ready™ (IVR) products, each preparation is also evaluated for endotoxin levels using the LAL assay. It is recommended to store the product undiluted at 4°C. Do not freeze.

## APPLICATION NOTES

This purified format is guaranteed to be >90% pure as determined by SDS-PAGE analysis. Citations are provided as a convenience to you - please consult Materials and Methods sections for additional details about the use of any product in these publications.

## REFERENCES

Hams E, McCarron MJ, Amu S, Yagita H, Azuma M, Chen L, and Fallon PG. 2011. J. Immunol. 186:5648-5655. (in vivo blocking) Shen L, Lin Y, Freeman GJ, Sharpe AH, and Dana MR. 2007. J. Immunol. 179:3672-3679. (immunohistochemistry - OCT embedded frozen tissue - flow cytometry) Schoop R, Wahl P, Le Hir M, Heemann U, Wang M, and Wuthrich RP. 2004. Nephrol. Dial. Transplant. 19: 2713-2720. (immunofluorescence microscopy – frozen tissue) Ansari MJ, Salama AD, Chitnis T, Smith RN, Yagita H, Akiba H, Yamazaki T, Azuma M, Isai H, Khoury SJ, Auchincloss H, and Sayegh MH. 2003. J. Exp. Med. 198:63-71. (in vivo blocking, immunohistochemistry – frozen tissue) Yamazaki T, Akiba H, Iwai H, Matsuda H, Aoki M, Tanno Y, Shin T, Tsuchiya H, Pardoll DM, Okumura K, Azuma M, and Yagita H. 2002. J. Immunol. 169: 5538-5545. (immunoprecipitation, western blot)

NOTE: Please choose the appropriate format for each application. Citations are provided as a convenience to you; please consult Materials and Methods sections for additional details about the use of any product in these publications.

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