Anti-Mouse CD273 (PD-L2, B7-DC) Purified
Catalogue Number : 25812-20

Product Information
- Clone: TY25
- Format/Conjugate: Purified
- Concentration: 0.5 mg/mL
- Reactivity: Mouse
- Laser: Not Applicable
- Peak Emission: Not Applicable
- Peak Excitation: Not Applicable
- Filter: Not Applicable
- Brightness (1=dim,5=brightest): Not Applicable
- Isotype: Rat IgG2a, kappa
- Formulation: Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, ph7.2.
- Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.
- Applications: FC, FA, IHC, IF, IP, WB

Description
The TY25 antibody reacts with mouse B7-DC (PD-L2), a 42 kDa glycoprotein of the B7 family of the immunoglobulin superfamily. B7-DC is expressed by macrophages, monocytes, and sub-populations of dendritic cells. B7-DC has similarities with the rest of the B7 family, but it does not bind to CD28/CD152. The receptor for B7-DC is PD-1, which contains an Immunoreceptor Tyrosine-based Inhibitory Motif (ITIM), and is expressed on activated B and T cells. The interaction between B7-DC and its receptor seems to downregulate immune responses. However, B7-DC seems to be a costimulator of T lymphocytes, reacting with a receptor different than PD-1. B7-DC can bind and stimulate dendritic cells. It is also the first B-7 ligand involved in bidirectional communication.

The TY25 monoclonal antibody blocks the binding of B7-DC to its receptor (PD-1) and can be used for studying the interaction between the antigen presenting cells and T lymphocytes.

Preparation & Storage
The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.

Application Notes
The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. It is recommended that the reagent be titrated for optimal performance for each application.

References