

CD273 (B7-DC) Monoclonal Antibody (122), Super Bright™ 436, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Super Bright™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	122
Conjugate	Super Bright™ 436
Excitation/Emission Max	413/431 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2688153

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1.0 µg/test	-

Product Specific Information

Description: The 122 monoclonal antibody reacts with mouse B7-DC, also known as PD-L2. B7-DC, a member of the B7 family, has a predicted molecular weight of approximately 25 kDa and belongs to the Ig superfamily. The mouse B7-DC has a short cytoplasmic tail (4aa). B7-DC is primarily expressed by subpopulations of dendritic cells and monocytes/macrophages in the mouse. Although B7-DC has structural and sequence similarities to the B7 family, it does not bind CD28/CTLA-4, rather it is a ligand for 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. 122 has been demonstrated to block binding of TY25 (Product # 14-5986), another mAb specific for mouse B7-DC.

Applications Reported: This 122 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 122 antibody has been tested by flow cytometric analysis of bone marrow derived dendritic cells. This may be used at less than or equal to 1.0 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

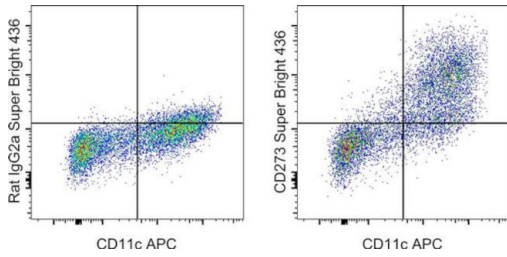
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

Excitation: 405 nm; Emission: 436 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD273 (B7-DC) Monoclonal Antibody (122), Super Bright™ 436, eBioscience™



CD273 (B7-DC) Antibody (62-9972-82) in Flow

Staining of BALB/c bone marrow derived dendritic cells with CD11c Monoclonal Antibody, APC (Product # 17-0114-82) and 0.5 µg of Rat IgG2a K Isotype Control, Super Bright 436 (Product # 62-4321-82) (left) or 0.5 µg of CD273 (B7-DC) Monoclonal Antibody, Super Bright 436 (right). Total viable cells were used for analysis.

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