

# CD369 (Clec7a, Dectin-1) Monoclonal Antibody (bg1fpj), 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	bg1fpj
Conjugate	PE
Excitation/Emission Max	565/576 nm
Immunogen	Baculovirus-expressed Fc-containing protein
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_2572633

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	1 Publication

## Product Specific Information

**Description:** The monoclonal antibody bg1fpj recognizes mouse CD369, also known as Dectin-1 or CLEC7A, a type II transmembrane protein in the C-type lectin family. The ligand is beta1, 3-glycan. Beta glycans are a main component in polysaccharides and specifically beta1,3-linked carbohydrates are found in the cell wall of fungi, plants and some bacteria. CD369 has been found to bind Candida, Aspergillus, Pneumocystis, Coccidioides and Mycobacterium. Calcium dependent binding to ligand signals through syk via the ITAM domain in the cytoplasmic portion and results in endocytosis/phagocytosis and production of cytokines (IL-2, IL-6, IL-10, TNF alpha, IL-1 beta, IL-23). A direct role in Th17 and Th1 differentiation has been attributed to CD369 signaling. CD369 is expressed predominantly on myeloid cells (neutrophils, monocytes, macrophages, and dendritic cells). Low levels have also been reported on lymphocytes and mucosal epithelium.

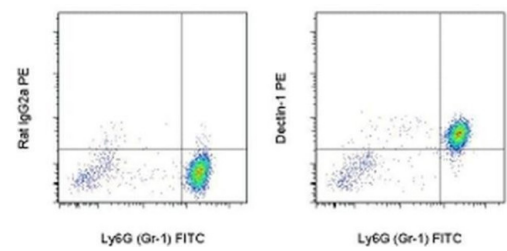
**Applications Reported:** This bg1fpj antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This bg1fpj antibody has been tested by flow cytometric staining of mouse lysed whole blood 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 CD369 (Clec7a, Dectin-1) Monoclonal Antibody (bg1fpj), PE, eBioscience™



**CD369 (Clec7a, Dectin-1) Antibody (12-5859-82) in Flow**  
Staining of BALB/c lysed whole blood cells with Anti-Mouse Ly-6G (Gr-1) FITC (Product # 11-5931-82) and 0.25 µg of Rat IgG2a K Isotype Control PE (Product # 12-4321-80) (left) or 0.25 µg of Anti-Mouse CD369 (Clec7A, Dectin-1) PE (right). Cells in the large scatter population were used for analysis.

1 Reference

Flow Cytometry (1)

Proceedings of the National Academy of Sciences of the United States of America	Year 2017
C-type lectin receptor DCIR modulates immunity to tuberculosis by sustaining type I interferon signaling in dendritic cells.	Species Mouse
"12585982 was used in flow cytometry to find that C-type lectin dendritic cell immunoreceptor is required to modulate lung inflammation and bacterial burden in tuberculosis"	Dilution 1:100
Authors: Troegeler A,Mercier I,Cougoule C,Pietretti D,Colom A,Duval C,Vu Manh TP,Capilla F,Poincloux R,Pingris K,Nigou J,Rademann J,Dalod M,Verreck FA,Al Saati T,Lugo-Villarino G,Lepeniez B,Hudrisier D,Neyrolles O	

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