

CD249 (BP-1) Monoclonal Antibody (6C3), PerCP-eFluor™ 710, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PerCP-eFluor™ 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	6C3
Conjugate	PerCP-eFluor™ 710
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_2573797

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

Product Specific Information

Description: The 6C3 monoclonal antibody reacts with mouse BP-1, also known as Ly-51 and 6C3 antigen. BP-1 is a 140 kDa type II transmembrane protein that is present on the surface as a disulfide-linked homodimer. This molecule is an enzyme with aminopeptidase A (APA) activity and is expressed by bone marrow stromal cells, thymic cortical epithelial cells and at early stages of mouse B cell development, on pre-B cells. The low level of BP-1 expression on pre-B cells can be upregulated in the presence of IL-7.

Applications Reported: This 6C3 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 6C3 antibody has been tested by flow cytometric analysis of mouse bone marrow cells. This can be used at less than or equal to 1 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.

PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm); it can be used in place of PerCP-Cyanine5.5. We recommend using a 710/50 bandpass filter, however, the 695/40 bandpass filter is an acceptable alternative. Please make sure that your instrument is capable of detecting this fluorochrome.

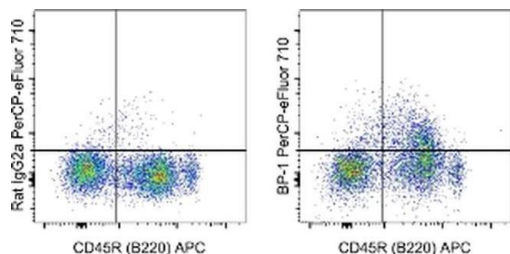
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 μ m post-manufacturing filtered.

Product Images For CD249 (BP-1) Monoclonal Antibody (6C3), PerCP-eFluor™ 710, eBioscience™



CD249 (BP-1) Antibody (46-5891-82) in Flow

Staining of BALB/c bone marrow cells with Anti-Human/Mouse CD45R (B220) APC (Product # 17-0452-82) and 0.5 μ g of Rat IgG2a K Isotype Control PerCP-eFluor® 710 (Product # 46-4321-82) (left) or 0.5 μ g of Anti-Mouse BP-1 PerCP-eFluor® 710 (right). Cells in the lymphocyte gate were used for analysis.

1 Reference

Flow Cytometry (1)

Annals of surgery

Lymphatic Contribution to the Cellular Niche in Heterotopic Ossification.

"Published figure using CD249 (BP-1) monoclonal antibody (Product # 46-5891-82) in Flow Cytometry"

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Species
Not Applicable

Dilution
Not Cited

Year
2016

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