

PLZF Monoclonal Antibody (Mags.21F7), PE, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Human, Mouse, Rhesus monkey
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	Mags.21F7
Conjugate	PE
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_11148934

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	9 Publications

Product Specific Information

Description: This Mags.21F7 monoclonal antibody reacts with human and mouse promyelocytic leukemia zinc finger (PLZF), a member of the BTB-POZ family of transcription factors. Expression of this transcriptional repressor in immune cells differs between mice and humans. In mice, PLZF is highly expressed in immature CD1d-restricted NKT2 and NKT1 cells, and a subset of gamma delta (Vg1.1+Vd6.3+) T cells. Studies have also demonstrated expression of PLZF in non-invariant CD1d-restricted T cells, as well as non-CD1d-restricted innate T cells. In humans, PLZF is expressed in NK cells, gamma delta T cells, as well as CD4 and CD8+ T cells. PLZF is also expressed in MR1-specific mucosal-associated invariant T cells, as well as in MHC Class II-restricted T cells that develop via a thymocyte-thymocyte interaction in humans. PLZF exists as a homodimer or in complex with PLZP, and has been shown to be involved in the development of NKT cells, NK cell function, cellular quiescence, and growth suppression. Finally, PLZF has been shown to inhibit gene expression induced by retinoic acid receptor.

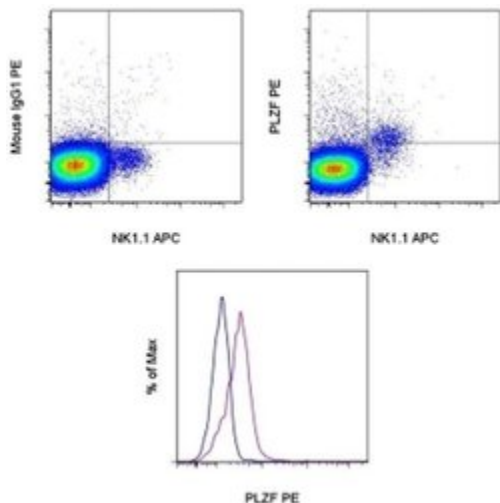
Applications Reported: This Mags.21F7 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This Mags.21F7 antibody has been tested by intracellular staining followed by flow cytometric analysis of mouse lymph node cells using the Foxp3/Transcription Factor Staining Buffer Set (cat. 00-5523) and protocol. 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 10⁵ to 10⁸ 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 PLZF Monoclonal Antibody (Mags.21F7), PE, eBioscience™



PLZF Antibody (12-9320-82) in Flow

TOP: C57Bl/6 thymocytes were stained with Anti-Mouse NK1-1 APC (Product # 17-5941-82) and Anti-Mouse TCR beta eFluor 450 (Product # 48-5961-82) followed by intracellular staining with 0.25 µg Mouse IgG1 K Isotype Control PE (Product # 12-4714-81) (left) or Anti-Mouse PLZF PE (right) using the Foxp3 Staining Buffer Set and protocol (Product # 00-5523-00). TCR beta+ cells in the lymphocyte gate were used for analysis. BOTTOM: C57Bl/6 thymocytes were stained with Anti-Mouse NK1-1 APC (Product # 17-5941-82) and Anti-Mouse TCR beta eFluor 450 (Product # 48-5961-82) followed by intracellular staining with 0.25 µg Mouse IgG1 K Isotype Control PE (Product # 12-4714-81) (blue histogram) or Anti-Mouse PLZF PE (purple histogram) using the Foxp3 Staining Buffer Set and protocol (Product # 00-5523-00). NK1-1+TCR beta+ cells in the lymphocyte gate were used for analysis.

9 References

Flow Cytometry (9)

Frontiers in immunology

The Hypothesis of the Human iNKT/Innate CD8(+) T-Cell Axis Applied to Cancer: Evidence for a Deficiency in Chronic Myeloid Leukemia.

Authors: Jacomet F, Cayssials E, Barbarin A, Desmier D, Basbous S, Lefèvre L, Levescot A, Robin A, Piccirilli N, Giraud C, Guilhot F, Roy L, Herbelin A, Gombert JM

Species
Human

Dilution
Not Cited

Year
2019

The EMBO journal

Transnuclear mice reveal Peyer's patch iNKT cells that regulate B-cell class switching to IgG1.

"Published figure using PLZF monoclonal antibody (Product # 12-9320-82) in Flow Cytometry"

Authors: Clancy-Thompson E, Chen GZ, LaMarche NM, Ali LR, Jeong HJ, Crowley SJ, Boelaars K, Brenner MB, Lynch L, Dougan SK

Species
Not Applicable

Dilution
Not Cited

Year
2019

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More applications with references on thermofisher.com

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