

# **Mouse PLZF Antibody**

Monoclonal Rat IgG<sub>2A</sub> Clone # 816421 Catalog Number: MAB29441

| DESCRIPTION        |  |
|--------------------|--|
| Species Reactivity | Mouse  |
| Specificity        | Detects mouse PLZF in direct ELISAs.   |
| Source             | Monoclonal Rat IgG <sub>2A</sub> Clone # 816421  |
| Purification       | Protein A or G purified from hybridoma culture supernatant   |
| Immunogen          | E. coli-derived recombinant mouse PLZF Met1-Gln254 Accession # NP_001028496  |
| Formulation        | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS. |

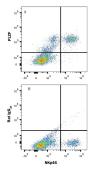
#### **APPLICATIONS**

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

|  | Recommended<br>Concentration  | Sample    |
|--|-------------------------------|-----------|
| Intracellular Staining by Flow Cytometry | 0.25 μg/10 <sup>6</sup> cells | See Below |

### DATA

# Intracellular Staining by Flow Cytometry



Detection of PLZF in Mouse Splenocytes by Flow Cytometry. Mouse splenocytes stimulated with Recombinant Mouse IL-12 (Catalog # 419-ML) and Recombinant Mouse IL-18 (Catalog # 9139-IL) for 3 days were stained with Rat Anti-Mouse NKp46/NCR1 PE-conjugated Monoclonal Antibody (Catalog # FAB22252P) and either (A) Rat Anti-Mouse PLZF Monoclonal Antibody (Catalog # MAB29441) or (B) Rat IgG<sub>2A</sub> Isotype Control (Catalog # MAB006) followed by Allophycocyanin-conjugated Anti-Rat IgG Secondary Antibody (Catalog # F0113). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for Staining Intracellular Molecules.

| PREPARATION AND STORAGE |   |  |
|-------------------------|---|--|
| Reconstitution          | Reconstitute at 0.5 mg/mL in sterile PBS.   |  |
| Shipping                | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. |  |
|                         | *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C                 |  |
| Stability & Storage     | Use a manual defrost freezer and avoid repeated freeze-thaw cycles.   |  |
|                         | ● 12 months from date of receipt -20 to -70 °C as supplied  |  |

- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

# BACKGROUND

Mouse PLZF, also known as Zinc finger and BTB domain containing protein 16 (ZBTB-16) PLZF and ZNF145, is a 74 kDa nuclear protein that belongs to the POK family of transcriptional repressors. It is a 673 amino acid (aa) protein that contains an N-terminal BTB domain, followed by an acidic domain, a proline-rich region and a C-terminal zinc finger domain. PLZF forms dimers with RARα and LAZ3 within its zinc finger region. Alternate splice forms exist that are tissue-specific and show a deletion of either the BTB domain, the acidic region, or the proline-rich region. PLZF is highly expressed in undifferentiated, multi-potential hematopoietic progenitor cells, with levels declining as cells commit to various lineages. Mouse PLZF shares 98% and 96% aa identity with rat and human PLZF, respectively

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