

## DESCRIPTION

|                                                                                                                                                                                                         |                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Mouse                                                                                     |
| <b>Specificity</b>                                                                                                                                                                                      | Detects mouse PLZF in direct ELISA and Western Blots.                                     |
| <b>Source</b>                                                                                                                                                                                           | Monoclonal Rat IgG <sub>1</sub> Clone # 816416                                            |
| <b>Purification</b>                                                                                                                                                                                     | Protein A or G purified from hybridoma culture supernatant                                |
| <b>Immunogen</b>                                                                                                                                                                                        | <i>E. coli</i> -derived recombinant mouse PLZF<br>Met1-Gln254<br>Accession # NP_001028496 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 647<br>Excitation Wavelength: 650 nm<br>Emission Wavelength: 668 nm           |
| <b>Formulation</b>                                                                                                                                                                                      | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide                              |
| *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |                                                                                           |

## 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.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

## 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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