

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PLZF in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) ZBTB38, rhZNF24, rhZNF143, rhZNF206, rhZNF281, or rhZNF423 is observed.
Source	Monoclonal Mouse IgG _{2A} Clone # 6318100
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human PLZF Met1-Gln254 Accession # Q05516
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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.

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	0.25-1 µg/10 ⁶ cells	HL-60 human acute promyelocytic leukemia cell line, fixed with paraformaldehyde and permeabilized with saponin

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Human PLZF is a 74 kDa nuclear protein that belongs to the POK family of transcriptional repressors. It is a 673 amino acid 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 homodimers with RARα and LAZ3 with its zinc-finger region. Alternate splice forms exist which are tissue-specific and show a deletion of either the BTB domain, the acidic region, or the proline-rich region. Human PLZF shares 96%, 97%, 96%, and 96% amino acid identity with rat, mouse, canine, and bovine PLZF, respectively.

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