

## Purified anti-PLZF Antibody

<b>Catalog# / Size</b>	625601 / 25 µg 625602 / 100 µg
<b>Clone</b>	W18031A
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	ZBTB16, Zinc Finger And BTB Domain Containing 16, ZNF145, Promyelocytic Leukaemia Zinc Finger
<b>Isotype</b>	Rat IgG2b, λ
<b>Description</b>	Promyelocytic leukaemia zinc finger protein (PLZF) is a transcription factor that belongs to the POK (POZ and Krüppel) family of transcriptional repressors. It is involved in cell cycle control, and plays an essential role in limb development, differentiation of myeloid cells, and spermatogenesis. In certain acute myeloid leukemias, PLZF exists as a translocation product with Retinoic Acid Receptor-α (PLZF-RARα) that has a dominant negative effect on hematopoietic differentiation and is capable of activating Wnt signaling by upregulating the γ-catenin promoter. PLZF can also repress transcription of <i>TP53</i> and also destabilizes p53 protein through enhanced ubiquitination.

### Product Details

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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	Partial recombinant human PLZF protein corresponding to amino acid residues 1-254
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography.
<b>Concentration</b>	0.5 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C.
<b>Application</b>	<a href="#">WB - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">Western blotting</a> . For Western blotting, the suggested use of this reagent is 0.1 - 1.0 µg per ml. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Application Notes</b>	This clone has not been tested for ICC or IP.
<b>RRID</b>	AB_2814490 (BioLegend Cat. No. 625601) AB_2814491 (BioLegend Cat. No. 625602)

### Antigen Details

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<b>Structure</b>	PLZF is a 673 amino acid protein with a predicted molecular weight of 74 kD.
<b>Distribution</b>	Nucleus/widely expressed
<b>Function</b>	Transcriptional repressor/epigenetic regulator
<b>Cell Type</b>	Mesenchymal Stem Cells, NKT cells, T cells
<b>Biology Area</b>	Cell Biology, Immunology, Signal Transduction, Stem Cells, Transcription Factors
<b>Antigen References</b>	

1. Choi WI, *et al.* 2014. *J. Biol. Chem.* 289: 18625.
2. Constantinides MG, *et al.* 2011. *J. Immunol.* 187:309.
3. Kovalovsky D, *et al.* 2008. *Nat. Immunol.* 9:1055.
4. Zheng X, *et al.* 2004. *Blood.* 103:3535.
5. Chen Z, *et al.* 1994. *Proc. Natl. Acad. Sci. USA* 91:1178.
6. Chen Z, *et al.* 1993. *EMBO J.* 12:1161.

Gene ID

[7704](#)

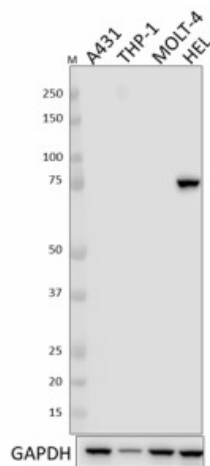
## Related Protocols

[Western Blotting Protocol](#)

## Other Formats

Purified anti-PLZF

## Product Data



Total cell lysates (15  $\mu$ g total protein) from A431, THP-1, and MOLT-4 (reduced expression controls), and HEL cells were resolved by 4-12% Bis-Tris gel electrophoresis, transferred to a PVDF membrane, and probed with 1.0  $\mu$ g/mL (1:500 dilution) of Purified anti-PLZF Antibody, clone W18031A, overnight at 4°C. Proteins were visualized by chemiluminescence detection using HRP Goat anti-rat IgG Antibody (Cat. No. 405405) at a 1:3000 dilution. Direct-Blot™ HRP anti-GAPDH Antibody (Cat. No. 607904) was used as a loading control at a 1:10000 dilution (lower) Lane M: Molecular Weight marker. Predicted ZBTB16 expression data was obtained from Human Protein Atlas.

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