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ZBTB16 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1429a

Product Information

Application	WB, ICC, E
Primary Accession	Q05516
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	5B3
Isotype	IgG1
Calculated MW	74274
Description	This gene is a member of the Krueppel C2H2-type zinc-finger protein family and encodes a zinc finger transcription factor that contains nine Kruppel-type zinc finger domains at the carboxyl terminus. This protein is located in the nucleus, is involved in cell cycle progression, and interacts with a histone deacetylase. Specific instances of aberrant gene rearrangement at this locus have been associated with acute promyelocytic leukemia (APL). Alternate transcriptional splice variants have been characterized. Tissue specificity: Within the hematopoietic system, PLZF is expressed in bone marrow, early myeloid cell lines and peripheral blood mononuclear cells. Also expressed in the ovary, and at lower levels, in the kidney and lung.
Immunogen	Purified recombinant fragment of human ZBTB16 expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	7704
Other Names	Zinc finger and BTB domain-containing protein 16, Promyelocytic leukemia zinc finger protein, Zinc finger protein 145, Zinc finger protein PLZF, ZBTB16, PLZF, ZNF145
Dilution	WB~~1/500 - 1/2000 ICC~~N/A E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ZBTB16 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ZBTB16
Synonyms	PLZF, ZNF145
Function	Acts as a transcriptional repressor (PubMed: 10688654, PubMed:24359566). Transcriptional repression may be mediated through recruitment of histone deacetylases to target promoters (PubMed:10688654). May play a role in myeloid maturation and in the development and/or maintenance of other differentiated tissues. Probable substrate-recognition component of an E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins (PubMed:14528312).
Cellular Location	Nucleus. Nucleus, nuclear body
Tissue Location	Within the hematopoietic system, PLZF is expressed in bone marrow, early myeloid cell lines and peripheral blood mononuclear cells. Also expressed in the ovary, and at lower levels, in the kidney and lung

References

1. Cancer Res. 2008 Apr 15;68(8):2745-54 2. Immunity. 2008 Sep 19;29(3):391-403.

Images

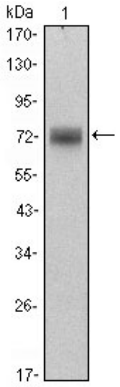

Figure 1: Western blot analysis using ZBTB16 mouse mAb against Hela (1) cell lysate.

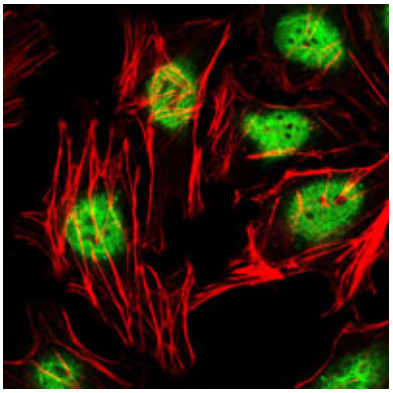

Figure 2: Immunofluorescence analysis of Hela cells using ZBTB16 mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.