10320 Camino Santa Fe, Suite G
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ZBTB16 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1429a

Specification

ZBTB16 Antibody - Product Information

Application	**WB, ICC, E**
Primary Accession	Q05516
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**74kDa KDa**

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.

ZBTB16 Antibody - 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.

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ZBTB16 Antibody - 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

ZBTB16 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ZBTB16 Antibody - Images

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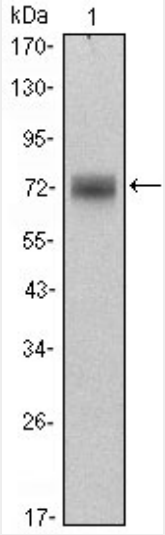

Figure 1: Western blot analysis using ZBTB16 mouse mAb against Hela (1) cell lysate.

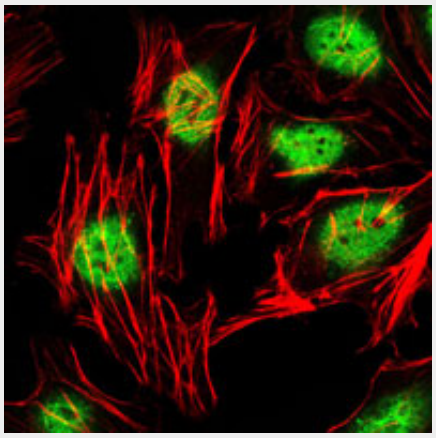

Figure 2: Immunofluorescence analysis of Hela cells using ZBTB16 mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

ZBTB16 Antibody - References

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