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PLZF Recombinant Rabbit mAb

Catalog # AP98689

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q05516
Other Accession	Q05516
Reactivity	Human
Host	Rabbit
Clonality	Recombinant
Calculated MW	74274
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the krueppel C2H2-type zinc-finger protein family.Contains 1 BTB (POZ) domain. Contains 9 C2H2-type zinc fingers.
SUBUNIT	Binds EPN1. Interacts with ZBTB32 and CUL3.
DISEASE	Defects in ZBTB16 are the cause of skeletal defects genital hypoplasia and mental retardation (SGYMR) [MIM:612447]. A disorder characterized by mental retardation, craniofacial dysmorphism, microcephaly and short stature. Additional features include absence of the thumbs, hypoplasia of the radii and ulnae, additional vertebrae and ribs, retarded bone age and genital hypoplasia. Note=A chromosomal aberration involving ZBTB16 may be a cause of acute promyelocytic leukemia (APL). Translocation t(11;17)(q32;q21) with RARA.
Background Descriptions	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. [provided by RefSeq, Jul 2008],

Additional Information

Gene ID	7704
Other Names	PLZF; ZNF145; Zfp145; lu; Lx; wu:fb93g12; wu:fc07c10; zbtb16; zgc:55675; ZBT16_HUMAN; Promyelocytic leukemia zinc finger protein; Zinc finger protein 145; Zinc finger protein PLZF; ZB16A_DANRE; zbtb16a; Promyelocytic leukemia zinc finger protein-A; Zinc finger protein PLZF-A; plzfa; zinc finger and BTB domain containing 16; zinc finger protein 145 (Kruppel-like, expressed in promyelocytic leukemia); promyelocytic leukaemia zinc finger; Zinc finger and BTB domain-containing protein 16
Dilution	IHC-P=1:50-200,IHC-F=1:50-200,WB=1:500-2000,IF=1:50-200,ELISA=1:5000-10

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Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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

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