Recombinant Human PRDM16, His-tagged

Cat. No. PRDM16-31106TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 984-1275 of Human PRDM16 with N terminal His tag; 292 amino acids, 39kDa.
Species	Human
Source	E.coli
ProteinLength	984-1275 a.a.
Description	The reciprocal translocation t(1;3)(p36;q21) occurs in a subset of myelodysplastic syndrome (MDS) and acute myeloid leukemia (AML). This gene is located near the 1p36.3 breakpoint and has been shown to be specifically expressed in the t(1:3)(p36,q21)-positive MDS/AML. The protein encoded by this gene is a zinc finger transcription factor and contains an N-terminal PR domain. The translocation results in the overexpression of a truncated version of this protein that lacks the PR domain, which may play an important role in the pathogenesis of MDS and AML. Alternatively spliced transcript variants encoding distinct isoforms have been reported.
Conjugation	HIS
Tissue specificity	Expressed in uterus and kidney.
Form	Lyophilised:Reconstitute with 108 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium

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	phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	DRSFSISSNLQRHVRNIHNKEKPFKCHLCNRCFGQQTNLD RHLKKHEHENAPVSQH PGVLTNHLGTSASSPTSESDNH ALLDEKEDSYFSEIRNFIANSEMNQASTRTEKRAD MQIVDGSAQCPGLASEKQEDVEEEDDDDLEEDDEDSLAGKSQD DTVSPAPEPQAA YEDEEDEEPAASLAVGFDHTRRCAED HEGGLLALEPMPTFGKGLDLRRAAEEAFE VKDVLNSTLDS EALKHTLCRQAKNQAYAMMLSLSEDTPLHTPSQGSLDA WLKVTG ATSESGAFHPINHL
Sequence Similarities	Contains 10 C2H2-type zinc fingers.Contains 1 SET domain.

GENE INFORMATION

Gene Name	PRDM16 PR domain containing 16 [Homo sapiens]
Official Symbol	PRDM16
Synonyms	PRDM16; PR domain containing 16; PR domain zinc finger protein 16; KIAA1675; MDS1/EVI1 like; MEL1; MGC166915; PFM13; transcription factor MEL1;
Gene ID	63976
mRNA Refseq	NM_199454
Protein Refseq	NP_955533
MIM	605557

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Uniprot ID	Q9HAZ2
Chromosome Location	1p36.23-p33
Function	SMAD binding; metal ion binding; protein binding; sequence-specific DNA binding; transcription coactivator activity;

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