Recombinant Human PRDM2

Cat. No. PRDM2-27746TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 2-200 of Human KMT8/Riz1/Riz2 with N-terminal proprietary tag, 48.6 kDa.
Species	Human
Source	E.coli
ProteinLength	2-200 a.a.
Description	This tumor suppressor gene is a member of a nuclear histone/protein methyltransferase superfamily. It encodes a zinc finger protein that can bind to retinoblastoma protein, estrogen receptor, and the TPA-responsive element (MTE) of the heme-oxygenase-1 gene. Although the functions of this protein have not been fully characterized, it may (1) play a role in transcriptional regulation during neuronal differentiation and pathogenesis of retinoblastoma, (2) act as a transcriptional activator of the heme-oxygenase-1 gene, and (3) be a specific effector of estrogen action. Multiple transcript variants encoding different isoforms have been found for this gene.
Tissue specificity	Highly expressed in retinoblastoma cell lines and in brain tumors. Also expressed in a number of other cell lines and in brain, heart, skeletal muscle, liver and spleen. Isoform 1 is expressed in testis at much higher level than isoform 3.
Biological activity	Specific Activity: 0.15 pmol/min/μg.

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Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 30% Glycerol, 0.05% Tween 20, 3mM DTT, 25mM Tris HCl, 100mM Sodium chloride, pH 8.0
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Contains 8 C2H2-type zinc fingers.Contains 1 SET domain.

GENE INFORMATION

Gene Name	PRDM2 PR domain containing 2, with ZNF domain [Homo sapiens]
Official Symbol	PRDM2
Synonyms	PRDM2; PR domain containing 2, with ZNF domain; PR domain zinc finger protein 2; GATA 3 binding protein G3B; HUMHOXY1; KMT8; MTB ZF; MTE binding protein; retinoblastoma protein binding zinc finger protein; retinoblastoma protein interacting zinc finger pr
Gene ID	7799
mRNA Refseq	NM_001007257
Protein Refseq	NP_001007258
MIM	601196
Uniprot ID	Q13029

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Chromosome Location	1p36
Function	DNA binding; histone-lysine N-methyltransferase activity; metal ion binding; methyltransferase activity; sequence-specific DNA binding transcription factor activity;

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