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Datasheet for ABIN7317619

PRDM2 Protein

Overview

Quantity:	100 µg
Target:	PRDM2
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Human PRDM2/RIZ1 Protein
Sequence:	Met 1-Ala 200
Characteristics:	A DNA sequence encoding the N-terminal segment of human PRDM2 (NP_036363.2) (Met 1-Ala 200), containing the SET domain, was expressed, with two additional amino acids (Gly & Pro) at the N-terminus.
Purity:	> 96 % as determined by reducing SDS-PAGE.

Target Details

Target:	PRDM2
Alternative Name:	PRDM2/RIZ1 (PRDM2 Products)
Background:	Background: PR domain containing 2, with ZNF domain (PRDM2), also known as zinc finger protein RIZ, is a member of histone methyltransferase (HMT) class enzymes that methylate lysine residues of histones or proteins. HMTs contain a conserved catalytic core termed the SET domain, which shares sequence homology with an independently described sequence

Target Details

motif, the PR domain. PRDM2 contains 8 C2H2-type zinc fingers and a distinct SET domain, and is highly expressed in retinoblastoma cell lines and in brain tumors, as well as in a number of other cell lines and in brain, heart, skeletal muscle, liver and spleen. PRDM2 is a S-adenosyl-L-methionine-dependent histone methyltransferase that specifically methylates 'Lys-9' of histone H3, and is identified as a tumor suppressor. It is reported that intact PR(SET) sequence is required for tumor suppression functions, mutations in the PR domain caused activity reduction in human cancers. Also, S-adenosylhomocysteine or methyl donor deficiency inhibits RIZ1 and other H3 lysine 9 methylation activities. PRDM2 may also function as a DNA-binding transcription factor. It Binds to the macrophage-specific TPA-responsive element (MTE) of the HMOX1 (heme oxygenase 1) gene and act as a transcriptional activator. In addition, PRDM2 (RIZ) is able to binds to the retinoblastoma protein (RB) and also Interacts with GATA3.

Synonym: HUMHOXY1,KMT8,MTB-ZF,RIZ,RIZ1,RIZ2

Molecular Weight:	23 kDa
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NCBI Accession:	NP_036363
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Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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Reconstitution:	Please refer to the printed manual for detailed information.
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Buffer:	Lyophilized from sterile 20 mM Tris, 150 mM NaCl, 0.5 mM DTT, 0.5 mM GSH, pH 8.0
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Storage:	4 °C,-20 °C,-80 °C
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Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
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