

PRD16 Rabbit pAb

CatalogNo: YT8124

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- IHC, WB

MW

- 140kD (Calculated)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000**IHC 1:50-200**

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from human C-terminal PRD16**Specificity** This antibody detects endogenous levels of PRD16 at Human, Mouse

Target Information

Gene name PRDM16 KIAA1675 MEL1 PFM13

Protein Name PR domain zinc finger protein 16 (PR domain-containing protein 16) (Transcription factor MEL1) (MDS1/EVI1-like gene 1)

Organism	Gene ID	UniProt ID
Human	63976 ;	Q9HAZ2 ;
Mouse	70673 ;	A2A935 ;

Cellular Localization Nucleus . Cytoplasm .

Tissue specificity Expressed in uterus and kidney. Expressed in both cardiomyocytes and interstitial cells.

Function Binds DNA and functions as a transcriptional regulator . Displays histone methyltransferase activity and monomethylates 'Lys-9' of histone H3 (H3K9me1) in vitro (By similarity). Probably catalyzes the monomethylation of free histone H3 in the cytoplasm which is then transported to the nucleus and incorporated into nucleosomes where SUV39H methyltransferases use it as a substrate to catalyze histone H3 'Lys-9' trimethylation (By similarity). Likely to be one of the primary histone methyltransferases along with MECOM/PRDM3 that direct cytoplasmic H3K9me1 methylation (By similarity). Functions in the differentiation of brown adipose tissue (BAT) which is specialized in dissipating chemical energy in the form of heat in response to cold or excess feeding while white adipose tissue (WAT) is specialized in the storage of excess energy and the control of systemic metabolism (By similarity). Together with CEBPB, regulates the differentiation of myoblastic precursors into brown adipose cells (By similarity). Functions as a repressor of TGF-beta signaling . ; [Isoform 4]: Binds DNA and functions as a transcriptional regulator . Functions as a repressor of TGF-beta signaling . May regulate granulocyte differentiation .

Validation Data

Contact information

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PRD16 Rabbit pAb

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