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Datasheet for ABIN1881531 anti-MBD2 antibody (AA 250-279)

2 Images

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Overview

Quantity:	400 µL
Target:	MBD2
Binding Specificity:	AA 250-279
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunofluorescence (IF)
Product Details	
Product Details Immunogen:	This MBD2 antibody is generated from rabbits immunized with a KLH conjugated synthetic
	This MBD2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 250-279 amino acids from the Central region of human MBD2.
Immunogen:	peptide between 250-279 amino acids from the Central region of human MBD2.
Immunogen: Clone:	peptide between 250-279 amino acids from the Central region of human MBD2. RB41663
Immunogen: Clone: Isotype:	peptide between 250-279 amino acids from the Central region of human MBD2. RB41663 Ig Fraction

Target Details

Target:	MBD2
Alternative Name:	MBD2 (MBD2 Products)
Background:	DNA methylation is the major modification of eukaryotic genomes and plays an essential role in

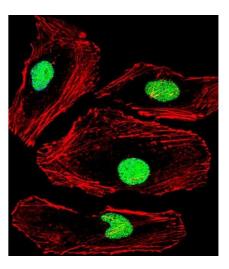
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Target Details

	mammalian development. Human proteins MECP2, MBD1, MBD2, MBD3, and MBD4 comprise a family of nuclear proteins related by the presence in each of a methyl-CpG binding domain (MBD). Each of these proteins, with the exception of MBD3, is capable of binding specifically to methylated DNA. MECP2, MBD1 and MBD2 can also repress transcription from methylated gene promoters. The protein encoded by this gene may function as a mediator of the biological consequences of the methylation signal. It is also reported that the this protein functions as a demethylase to activate transcription, as DNA methylation causes gene silencing.
Molecular Weight:	43255
NCBI Accession:	NP_003918, NP_056647
UniProt:	Q9UBB5
Pathways:	Chromatin Binding
Application Details	
Application Notes:	IF: 1:10~50. WB: 1:1000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	6 months
Publications	

Product cited in: Mei, Li, Chu, Yiu, Lo: "The inhibitory effects of silver diamine fluoride at different concentrations on matrix metalloproteinases." in: **Dental materials : official publication of the Academy of Dental Materials**, Vol. 28, Issue 8, pp. 903-8, (2012) (PubMed).

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HL-60 95 72 55 36 28

Immunofluorescence

Image 1. Fluorescent confocal image of Hela cell stained with MBD2 Antibody (Center) (ABIN1881531 and ABIN2838849). Hela cells were fixed with 4 % PFA (20 min), permeabilized with Triton X-100 (0.1 %, 10 min), then incubated with MBD2 primary antibody (1:25, 1 h at 37 °C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 °C).Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7 units/mL, 1 h at 37 °C). Nuclei were counterstained with DI (blue) (10 µg/mL, 10 min).MBD2 immunoreactivity is localized to Nucleus significantly.

Western Blotting

Image 2. MBD2 Antibody (Center) (ABIN1881531 and ABIN2838849) western blot analysis in HL-60 cell line lysates ($35 \mu g$ /lane).This demonstrates the MBD2 antibody detected the MBD2 protein (arrow).

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