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Datasheet for ABIN2776028 anti-MBD4 antibody (Middle Region)

2 Images



Overview

Quantity:	100 µL
Target:	MBD4
Binding Specificity:	Middle Region
Reactivity:	Human, Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MBD4 antibody is un-conjugated
Application:	Western Blotting (WB), Chromatin Immunoprecipitation (ChIP)

Product Details

Target:	MBD4	
Target Details		
Purification:	Affinity Purified	
Characteristics:	This is a rabbit polyclonal antibody against MBD4. It was validated on Western Blot using a cell lysate as a positive control.	
Predicted Reactivity:	Guinea Pig: 83%, Human: 100%	
Sequence:	CSEQKTSGII NKFCSAKDSE HNEKYEDTFL ESEEIGTKVE VVERKEHLHT	
Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human MBD4	

Target:	MBD4
Alternative Name:	MBD4 (MBD4 Products)

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN2776028 | 09/11/2023 | Copyright antibodies-online. All rights reserved. Background:

MBD4 is involved with DNA methylation. DNA methylation is the major modification of eukaryotic genomes and plays an essential role in mammalian development. Human proteins MECP2, MBD1, MBD2, MBD3, and MBD3 comprise a family of nuclear proteins related by??he 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. MBD4 may function to mediate the biological consequences of the methylation signal. In addition, MBD4 has protein sequence similarity to bacterial DNA repair enzymes and thus may have some function in DNA repair. Further, MBD4 gene mutations are detected in tumors with primary microsatelliteinstability (MSI), a form of genomic instability associated with defective DNA mismatch repair, and MBD4 gene meets 4 of 5 criteria of a bona fide MIS target gene.DNA methylation is the major modification of eukaryotic genomes and plays an essential role in 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. MBD4 may function to mediate the biological consequences of the methylation signal. In addition, MBD4 has protein sequence similarity to bacterial DNA repair enzymes and thus may have some function in DNA repair. Further, MBD4 gene mutations are detected in tumors with primary microsatellite-instability (MSI), a form of genomic instability associated with defective DNA mismatch repair, and MBD4 gene meets 4 of 5 criteria of a bona fide MIS target gene. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications. Alias Symbols: MED1 Protein Interaction Partner: KDM1A, SUV39H1, HTT, FAS, SUM02, UBC, CDCA2, Trim27, FADD, MLH1, CSNK2B, DNMT3B, SIN3A, HDAC1,

Protein Size: 580

Molecular Weight:	66 kDa
Gene ID:	8930
NCBI Accession:	NM_003925, NP_003916
UniProt:	095243
Pathways:	DNA Damage Repair

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

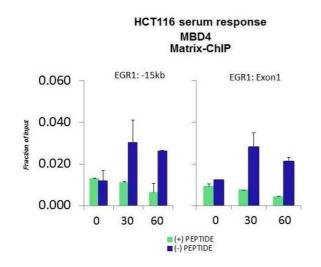
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Application Details		
Comment:	Antigen size: 580 AA	
Restrictions:	For Research Use only	

Handling

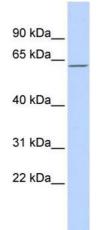
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Chromatin Immunoprecipitation

Image 1. Quiescent human colon carcinoma HCT116 cultures were treated with 10% FBS for three time points (0, 15, 30min) or (0, 30, 60min) were used in Matrix-ChIP and real-time PCR assays at EGR1 gene (Exon1) and 15kb upstream site.



Western Blotting

Image 2. WB Suggested Anti-MBD4 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:12500 Positive Control: Hela cell lysate MBD4 is strongly supported by BioGPS gene expression data to be expressed in Human HeLa cells

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