

Datasheet for ABIN2778640
anti-MBD2 antibody (Middle Region)

3 Images

[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	MBD2
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Dog, Cow, Guinea Pig, Horse, Rabbit, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MBD2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human MBD2
Sequence:	DCPALPPGWK KEEVIRKSL SAGKSDVYYF SPSGKKFRSK PQLARYLGNT
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 93%
Characteristics:	This is a rabbit polyclonal antibody against MBD2. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Protein A purified

Target Details

Target:	MBD2
---------	------

Target Details

Alternative Name: MBD2 ([MBD2 Products](#))

Background: MBD2 belongs to 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. MBD2 can also repress transcription from methylated gene promoters. MBD2 may function as a mediator of the biological consequences of the methylation signal. It is also reported that the MBD2 functions as a demethylase to activate transcription, as DNA methylation causes gene silencing. 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. 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.

Alias Symbols: DMTase, NY-CO-41

Protein Interaction Partner: UBC, SOX2, HDAC2, HDAC1, MTA3, LAMTOR3, TFAP4, KDM5B, CDK2AP1, ESR1, KDM1A, MTA2, MBD2, RBBP7, RBBP4, CHD3, tat, MBD3L2, MBD3, csul, GATAD2A, TACC3, PRMT5, WDR77, PRMT1, PTK2B, TRIM27, GATAD2B, MBD3L1, GPN1, SIN3A, HINFP, DHX9, CREBBP, DNMT1, tax, NEWENTR

Protein Size: 302

Molecular Weight: 32 kDa

Gene ID: 8932

NCBI Accession: [NM_015832](#), [NP_056647](#)

Pathways: [Chromatin Binding](#)

Application Details

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

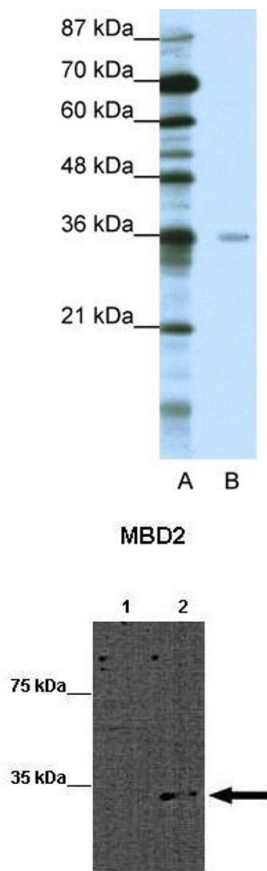
Comment: Antigen size: 302 AA

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



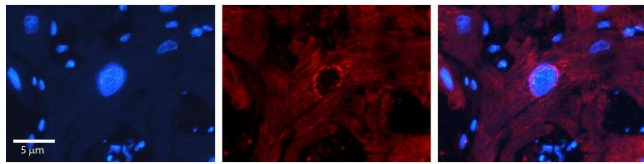
Western Blotting

Image 1. WB Suggested Anti-MBD2 Antibody Titration: 0.625ug/ml ELISA Titer: 1:1562500 Positive Control: HepG2 cell lysate

Western Blotting

Image 2. Lanes: Lane 1: 15ug WT mouse ES lysate Lane 2: 15ug MBD2 KO mouse ES lysate Primary Antibody Dilution: 1:1000 Secondary Antibody: Goat anti-rabbit-HRP Secondary Antibody Dilution: 1:2500 Gene Name: MBD2 a Submitted by: Austin J. Cooney, Baylor College of Medicine

See Immunoblot 2 Data and Customer Feedback for more Information



Immunohistochemistry

Image 3. Rabbit Anti-MBD2 Antibody Formalin Fixed Paraffin Embedded Tissue: Human heart Tissue Observed Staining: Nucleus Primary Antibody Concentration: 1:100 Other Working Concentrations: N/A Secondary Antibody: Donkey anti-Rabbit-Cy3 Secondary Antibody Concentration: 1:200 Magnification: 20X Exposure Time: 0.5 - 2.0 sec