

Product datasheet

Anti-MBD2 antibody ab38646

★★★★★ 8 Abreviews 10 References 4 Images

Overview

Product name	Anti-MBD2 antibody
Description	Rabbit polyclonal to MBD2
Host species	Rabbit
Specificity	This antibody is specific for MBD2 (N term). Rat - Abreview feedback has stated that this antibody works on rat prostate. It gives some non-specific band in rat testis, probably due to presence of other MBD isoforms.
Tested applications	Suitable for: ICC/IF, IP, ELISA, WB, IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide corresponding to Human MBD2 aa 120-151 (N terminal) conjugated to keyhole limpet haemocyanin. Database link: Q9UBB5
Positive control	A375 cell lysate and mouse brain tissue lysate.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	Preservative: 0.09% Sodium azide Constituent: PBS
Purity	Protein G purified
Purification notes	This antibody was eluted out with both high and low pH buffers and neutralized immediately after elution then followed by dialysis against PBS.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab38646** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★★★	1/50.
IP	★★★★☆	Use at an assay dependent concentration.
ELISA		1/1000.
WB	★★★★☆	1/100 - 1/1000. Detects a band of approximately 43 kDa (predicted molecular weight: 43 kDa).
IHC-P	★★★★★	Use at an assay dependent concentration.

Target

Function

Binds CpG islands in promoters where the DNA is methylated at position 5 of cytosine within CpG dinucleotides. Binds hemimethylated DNA as well. Recruits histone deacetylases and DNA methyltransferases. Acts as transcriptional repressor and plays a role in gene silencing. Functions as a scaffold protein, targeting GATAD2A and GATAD2B to chromatin to promote repression. May enhance the activation of some unmethylated cAMP-responsive promoters.

Tissue specificity

Highly expressed in brain, heart, kidney, stomach, testis and placenta.

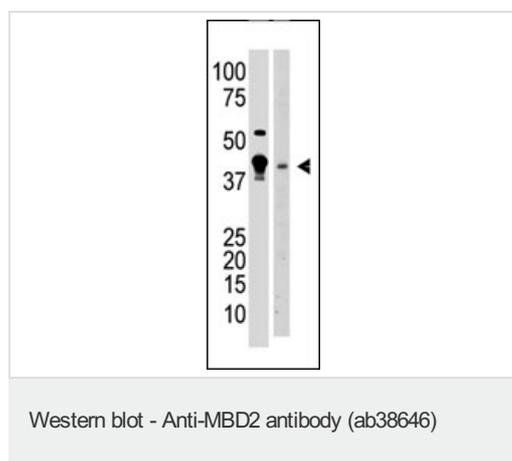
Sequence similarities

Contains 1 MBD (methyl-CpG-binding) domain.

Cellular localization

Nucleus. Nuclear, in discrete foci. Detected at replication foci in late S phase.

Images



All lanes : Anti-MBD2 antibody (ab38646) at 1/1000 dilution

Lane 1 : A375 cell lysate

Lane 2 : mouse brain tissue lysate

Lysates/proteins at 35 µg per lane.

Secondary

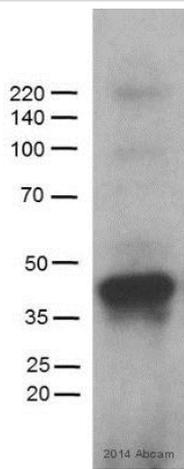
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution

Predicted band size: 43 kDa

Observed band size: 43 kDa

Additional bands at: 55 kDa. We are unsure as to the identity of these extra bands.

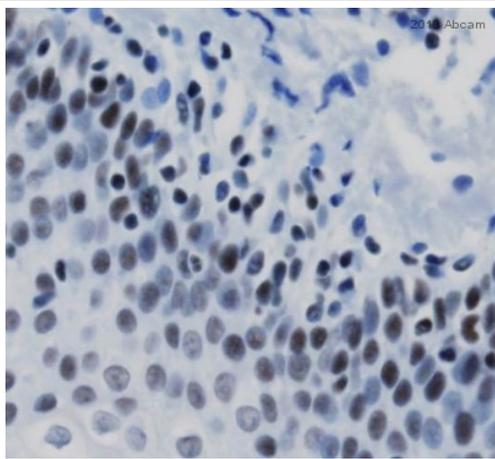
Blocking/Dilution buffer: 5% NFDm/TBST.



Immunoprecipitation - Anti-MBD2 antibody
(ab38646)

This image is courtesy of an anonymous Abreview

ab38646 immunoprecipitating MBD2 in human K562 whole cell lysate. 15µg of cell lysate was incubated with primary antibody (2 µg/ml in RIPA buffer) and matrix (Protein A/G) for 12 hours at 4°C. For western blotting a HRP-conjugated goat anti-rabbit IgG polyclonal (1/2500) was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MBD2 antibody
(ab38646)

This image is courtesy of an anonymous Abreview

ab38646 staining MBD2 in Human tonsil tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with paraformaldehyde and blocked with 1% BSA for 10 minutes at 25°C; antigen retrieval was by heat mediation in a citrate buffer, pH 6.0. Samples were incubated with primary antibody (1/500 in TBS) for 12 hours at 4°C. An undiluted alkaline phosphatase-conjugated Goat anti-rabbit IgG polyclonal was used as the secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-MBD2 antibody (ab38646)

Image courtesy of an anonymous Abreview.

ab38646 staining MBD2 in rat liver cultured cells by Immunocytochemistry/ Immunofluorescence. The cells were fixed in formaldehyde, permeabilised in 0.1% Triton X-100 and then blocked using 1% BSA for 1 hour at 25°C. Samples were then incubated with primary antibody at 1/50 for 10 hours at 25°C. The secondary antibody used was a goat anti-rabbit IgG conjugated to Alexa Fluor® 568 (red) used at a 1/400 dilution.

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