

Product datasheet

Anti-MBD1 antibody ab89534

画像数 2

製品の概要

製品名	Anti-MBD1 antibody
製品の詳細	Mouse monoclonal to MBD1
由来種	Mouse
アプリケーション	適用あり: WB, ELISA
種交差性	交差種: Human 交差が予測される動物種: Chimpanzee, Cynomolgus monkey, Orangutan
免疫原	Recombinant fragment: HHLGPTLKPT LATRTAQPDH TQAPTKEAG GGFVLPPPVT DLVFLREGAS SPVQVPGPVA ASTEALLQEA QCSGLSWVVA LPQVKQEKAD TQDE, corresponding to amino acids 415-508 of Human MBD1 (NP_056671), with a 26 kDa proprietary tag. Run BLAST with ExPASy Run BLAST with NCBI
ポジティブ・コントロール	Partial tagged recombinant Human MBD1 protein (Immunogen), IMR-32 cell lysate.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
バッファー	Preservative: None Constituents: 1X PBS, pH 7.2
精製度	Protein A purified
ポリ/モノ	モノクローナル
アイソタイプ	IgG2b
軽鎖の種類	kappa

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab89534** in the following tested applications.

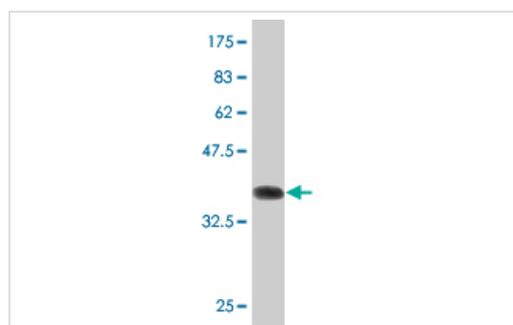
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
WB		Use a concentration of 1 - 5 µg/ml. Predicted molecular weight: 67 kDa.
ELISA		Use at an assay dependent dilution.

ターゲット情報

機能	Transcriptional repressor that binds CpG islands in promoters where the DNA is methylated at position 5 of cytosine within CpG dinucleotides. Binding is abolished by the presence of 7-mG that is produced by DNA damage by methylmethanesulfonate (MMS). Acts as transcriptional repressor and plays a role in gene silencing by recruiting AFT7IP, which in turn recruits factors such as the histone methyltransferase SETDB1. Probably forms a complex with SETDB1 and ATF7IP that represses transcription and couples DNA methylation and histone 'Lys-9' trimethylation. Isoform 1 and isoform 2 can also repress transcription from unmethylated promoters.
組織特異性	Widely expressed.
配列類似性	Contains 3 CXXC-type zinc fingers. Contains 1 MBD (methyl-CpG-binding) domain.
ドメイン	The methyl-CpG-binding domain (MBD) functions both in binding to methylated DNA and in protein interactions. The third CXXC-type zinc finger mediates binding to non-methylated CpG dinucleotides. The transcriptional repression domain (TRD) is involved in transcription repression and in protein interactions.
翻訳後修飾	Sumoylated with SUMO1 by PIAS1 and PIAS3. Sumoylation affects transcriptional silencing by preventing the interaction with SETDB1. In contrast, sumoylation may increase interaction with AFT7IP. Phosphorylated upon DNA damage, probably by ATM or ATR.
細胞内局在	Nucleus speckle. Chromosome. Nuclear, in a punctate pattern. Associated with euchromatic regions of the chromosomes, with pericentromeric regions on chromosome 1 and with telomeric regions from several chromosomes.

画像



Western blot - Anti-MBD1 antibody (ab89534)

Anti-MBD1 antibody (ab89534) at 5 µg/ml + Partial tagged recombinant Human MBD1 protein at 0.2 µg

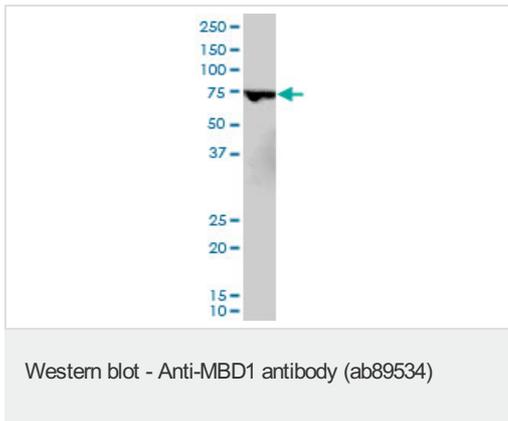
Predicted band size: 67 kDa

Observed band size: 40 kDa

[why is the actual band size different from the predicted?](#)

Western blot against tagged recombinant protein immunogen.

Predicted band size of immunogen is 36 kDa.



Anti-MBD1 antibody (ab89534) at 5 µg/ml + IMR-32 cell lysate at 50 µg

Predicted band size: 67 kDa

Observed band size: 75 kDa [why is the actual band size different from the predicted?](#)

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