

Rabbit anti-Human MBD4 Polyclonal Antibody | anti-MBD4 antibody

Anti-MBD4 Antibody, Rabbit Polyclonal

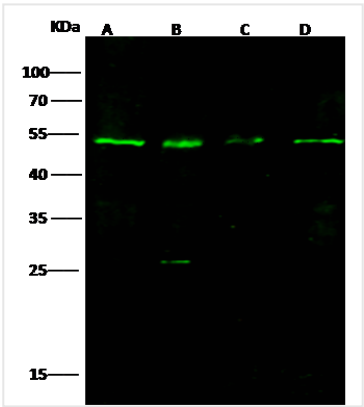
CATALOG # AAA254332	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunoprecipitation, Western Blot
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PRODUCT SYNONYMS

MBD4; Polyclonal Antibody; Anti-MBD4 Antibody; Rabbit Polyclonal; MBD4 Antibody; Rabbit PAb; Antigen Affinity Purified; methyl-CpG binding domain 4 DNA glycosylase; Anti-MED1 Antibody; anti-MBD4 antibody

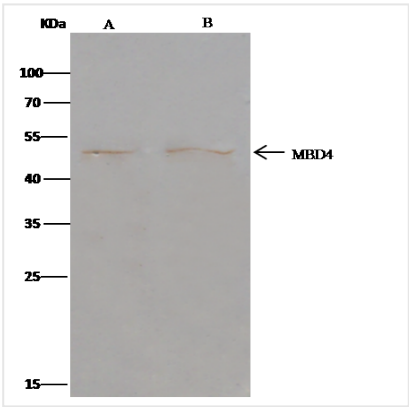
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human MBD4
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-MBD4 antibody	IP (Immunoprecipitation), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to the center region of the Human MBD4
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the center region of the Human MBD4, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



WB (Western Blot)

Anti-MBD4 rabbit polyclonal antibody at 1:500 dilution Lane A: Hela Whole Cell Lysate Lane B: MCF7 Whole Cell Lysate Lane C: K562 Whole Cell Lysate Lane D: A549 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 66 kDa Observed band size: 53 kDa (We are unsure as to the identity of these extra bands).



IP (Immunoprecipitation)

MBD4 was immunoprecipitated using: Lane A: 0.5 mg Hela Whole Cell Lysate Lane B: 0.5 mg MCF-7 Whole Cell Lysate 0.5 uL anti-MBD4 rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein G. Primary antibody: Anti-MBD4 rabbit polyclonal antibody, at 1:500 dilution Secondary antibody: Clean-Blot IP Detection Reagent (HRP) at 1:500 dilution Developed using the DAB staining technique. Performed under reducing conditions. Predicted band size: 66 kDa Observed band size: 53 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-MBD4 antibody	MBD4 is the only methyl-CpG binding protein that possesses a C-terminal glycosylase domain. MBD4 contains a methyl-CpG-binding domain which provides the localization of the enzyme at the CpG sites, and a DNA glycosylase domain that is responsible for the catalytic activity. Methyl-CpG binding domain protein 4 (MBD4) is a DNA glycosylase that can remove 5-fluorodeoxyuracil from DNA as well as repair T:G or U:G mismatches. MBD4 is a target for frameshift mutation with DNA mismatch repair (MMR) deficiency, creating a truncated MBD4 protein (TruMBD4) that lacks its glycosylase domain. MBD4 (methyl-CpG binding domain protein 4) is an important G: T glycosylase that can identify T-G mismatches. It plays a role in active demethylation through base excision repair. Overexpression of MBD4 gene can cause the demethylation of numerous genes, and the remethylation of MBD4-associated genes can occur when the MBD4 gene is knocked out.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	50400819
NCBI GeneID	8930
UniProt Accession #	O95243; Q2MD36; Q7Z4T3; Q96F09; B4DZN2; D3DNC3; D3DNC4; E9PEE4
Molecular Weight	580
NCBI Official Full Name	Methyl-CpG-binding domain protein 4
NCBI Official Synonym Full Names	methyl-CpG binding domain protein 4
NCBI Official Symbol	MBD4
NCBI Official Synonym Symbols	MED1
NCBI Protein Information	methyl-CpG-binding domain protein 4; G/T mismatch glycosylase; G/U mismatch glycosylase; methyl-CpG-binding protein MBD4; 3,N(4)-ethenocytosine glycosylase; methyl-CpG-binding endonuclease 1; mismatch-specific DNA N-glycosylase; putative methyl-CpG bindin
UniProt Protein Name	Methyl-CpG-binding domain protein 4
UniProt Gene Name	MBD4
UniProt Synonym Gene Names	MED1
UniProt Entry Name	MBD4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mbd4-antibody-immunoprecipitation-western-blot-elisa/254332>