

MBD1 Polyclonal Antibody

Catalog NumberPA1-889

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Western Blot (WB)	Dilution * 1-3 µg/mL
Type	Antibody	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Immunogen	Synthetic Peptide: C R(593) S K D L K K P G A R K Q(605)		
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	PBS with 1mg/mL BSA		
Contains	0.05% sodium azide		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Product specific information

PA1-889 detects human methyl CpG binding domain protein 1 (MBD1) recombinant protein. PA1-889 has been successfully used in Western blot procedures. By Western blot, this antibody detects an ~83 kDa protein representing recombinant human MBD1. PA1-889 immunizing peptide corresponds to amino acid residues 593-605 from human MBD1 protein. PA1-889 immunizing peptide (Cat. # PEP-130) is available for use in neutralization and control experiments.

Background/Target Information

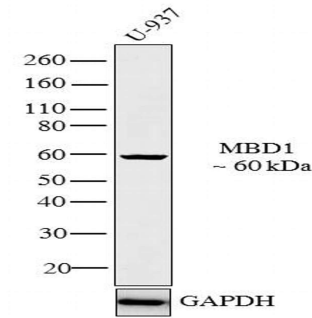
Methyl-CpG-binding domain protein 1 (MBD1) is a member of a family of mammalian proteins that specifically bind methylated regions of DNA. It is a transcriptional repressor that binds CpG islands in promoters where the DNA is methylated at position 5 of cytosine within CpG dinucleotides. Binding is abolished by the presence of 7-mG that is produced by DNA damage by methylmethanesulfonate (MMS). MBD1 acts as a transcriptional repressor and plays a role in gene silencing by recruiting AFT7IP, which in turn recruits factors such as the histone methyltransferase SETDB1. Isoform 1 and isoform 2 can also repress transcription from unmethylated promoters.

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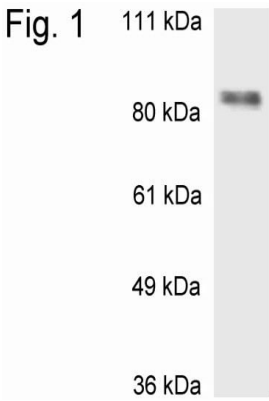
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MBD1 Antibody (PA1-889) in WB

Western blot analysis was performed on nuclear enriched extracts (30 µg lysate) of U-937 (Lane 1).The blots were probed with MBD1 Rabbit Polyclonal Antibody (Product # PA1-889, 2 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg /mL, 1:2500 dilution). A 60 kDa band corresponding to MBD1 was observed in the cell line tested. Known quantity of protein samples were electrophoresed using Novex®NuPAGE®4-12 % Bis-Tris gel (Product # NP0322BOX), XCell SureLock Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5% skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



MBD1 Antibody (PA1-889) in WB

Western blot of recombinant human MBD1 protein using Product # PA1-889.

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