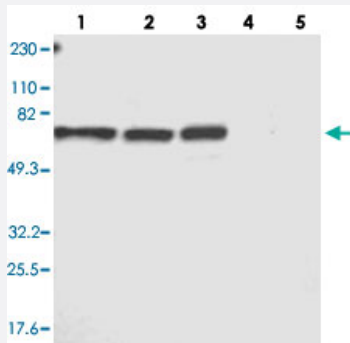


MBD4 polyclonal antibody

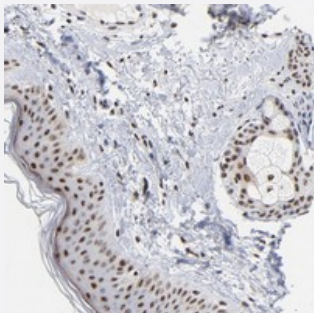
Catalog # PAB20104 Size 100 uL

Applications



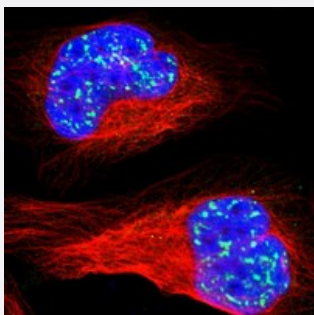
Western Blot

Western blot analysis of Lane 1: RT-4, Lane 2: U-251 MG, Lane 3: A-431, Lane 4: Liver, Lane 5: Tonsil with MBD4 polyclonal antibody (Cat # PAB20104) at 1:250-1:500 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human skin with MBD4 polyclonal antibody (Cat # PAB20104) shows strong nuclear positivity in epidermal cells and adnexal cells at 1:200-1:500 dilution.



Immunofluorescence

Immunofluorescent staining of human cell line U-2 OS with MBD4 polyclonal antibody (Cat # PAB20104) at 1-4 ug/mL dilution shows positivity in nuclei but not nucleoli.

Specification

Product Description

Rabbit polyclonal antibody raised against recombinant MBD4.

Immunogen

Recombinant protein corresponding to amino acids of human MBD4.

Sequence	LQNQSNNSNWNLRTRSKCKKDVFMPPSSSSSELQESRGLSNFTSTHLLLKEDEGVDDVNFRKVR KPKGKVTILKGIPKTKKGCRKSCSGFVQSDSKRESVCNKADAESPEVAQKSQLDRTVCISDAG ACGETLSVTSEEN
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (1:200-1:500) Western Blot (1:250-1:500) Immunofluorescence (1-4 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

Western blot analysis of Lane 1: RT-4, Lane 2: U-251 MG, Lane 3: A-431, Lane 4: Liver, Lane 5: Tonsil with MBD4 polyclonal antibody (Cat # PAB20104) at 1:250-1:500 dilution.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human skin with MBD4 polyclonal antibody (Cat # PAB20104) shows strong nuclear positivity in epidermal cells and adnexal cells at 1:200-1:500 dilution.

- Immunofluorescence

Immunofluorescent staining of human cell line U-2 OS with MBD4 polyclonal antibody (Cat # PAB20104) at 1-4 ug/mL dilution shows positivity in nuclei but not nucleoli.

Gene Info — MBD4

Entrez GeneID [8930](#)

Protein Accession#	O95243
Gene Name	MBD4
Gene Alias	MED1
Gene Description	methyl-CpG binding domain protein 4
Omim ID	603574
Gene Ontology	Hyperlink
Gene Summary	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. MBD4 may function to mediate the biological consequences of the methylation signal. In addition, MBD4 has protein sequence similarity to bacterial DNA repair enzymes and thus may have some function in DNA repair. Further, MBD4 gene mutations are detected in tumors with primary microsatellite-instability (MSI), a form of genomic instability associated with defective DNA mismatch repair, and MBD4 gene meets 4 of 5 criteria of a bona fide MIS target gene. [provided by RefSeq]
Other Designations	3,N(4)-ethenocytosine glycosylase G/5-fluorouracil mismatch glycosylase with biphasic kinetics G/T mismatch glycosylase G/U mismatch glycosylase putative methyl-CpG binding protein

Pathway

- [Base excision repair](#)

Disease

- [Adenocarcinoma](#)
- [Carcinoma](#)
- [DNA Damage](#)
- [Esophageal Neoplasms](#)
- [Gastrointestinal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Graft vs Host Disease](#)
- [Lung carcinoma](#)

- [Lung Neoplasms](#)
- [Microsatellite Instability](#)
- [Multiple Sclerosis](#)
- [Pulmonary Disease](#)
- [Purpura](#)
- [Small Cell Lung Carcinoma](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)