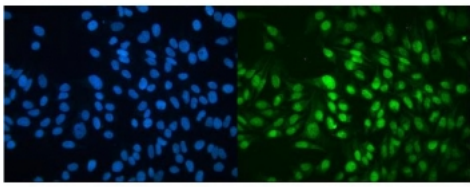
MBD4 Antibody / MED1 (RQ5986)

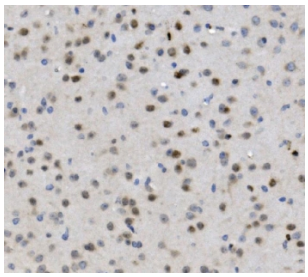
Catalog No.	Formulation	Size
RQ5986	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

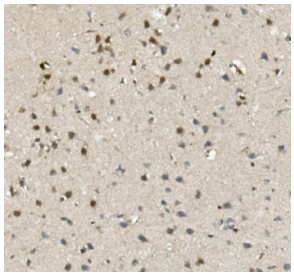
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	O95243
Localization	Nuclear
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry: 1-2ug/ml Immunofluorescence: 2-4ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This MBD4 antibody is available for research use only.



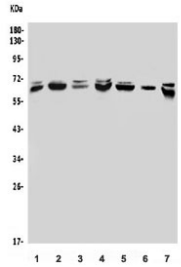
Immunofluorescent staining of FFPE human HeLa cells with MBD4 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



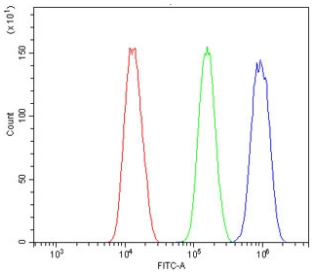
IHC staining of FFPE mouse brain with MBD4 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat brain with MBD4 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) A549, 2) Jurkat, 3) SK-O-V3, 4) Raji, 5) HeLa, 6) A431 and 7) MDA-MB-453 lysate with MBD4 antibody. Predicted molecular weight ~66 kDa.



Flow cytometry testing of human SiHa cells with MBD4 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= MBD4 antibody.

Description

Methyl-CpG-binding domain protein 4 is a protein that in humans is encoded by the MBD4 gene. It is mapped to 3q21.3. The protein encoded by this gene is a member of a family of nuclear proteins related by the presence of a methyl-CpG binding domain (MBD). These proteins are capable of binding specifically to methylated DNA, and some members can also repress transcription from methylated gene promoters. This protein contains an MBD domain at the N-terminus that functions both in binding to methylated DNA and in protein interactions and a C-terminal mismatch-specific glycosylase domain that is involved in DNA repair. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.

Application Notes

Optimal dilution of the MBD4 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids A16-S580) was used as the immunogen for the MBD4 antibody.

Storage

After reconstitution, the MBD4 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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