

AP22575PU-N

Polyclonal Antibody to MBD2 (15-29) - Aff - Purified

Alternate names:

DMTase, Demethylase, Methyl-CpG-binding domain protein 2

Quantity:

50 µg

Concentration:

0.5 mg/ml

Background:

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. MECP2, MBD1 and MBD2 can also repress transcription from methylated gene promoters.

Uniprot ID:

[Q9UBB5](#)

NCBI:

[NP_003918](#)

GeneID:

[8932](#)

Host:

Goat

Immunogen:

Synthetic peptide from an internal region of human MBD2

Genename: MBD2

AA Sequence:

C-RNDPLNQNKGPDLN

Remarks: Percent identity by BLAST analysis: Human, Gorilla, Gibbon, Monkey, Marmoset, Mouse, Rat, Hamster, Elephant, Panda, Dog, Bat, Bovine, Horse, Rabbit, Pig, Opossum (100%); Xenopus (93%); Zebrafish (80%)

Format:

State: Liquid purified Ig fraction

Purification: Immunoaffinity chromatography

Buffer System: Tris saline buffer, pH 7.3 containing 0.5% BSA as stabilizer and 0.02% sodium azide as preservative

Applications:

ELISA: 1/64000.

Immunohistochemistry on Paraffin Sections: 2.5 µg/ml.

Western Blot.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

This antibody detects MBD2 (Internal).

It is expected to recognize isoform 1 (NP_003918.1) only.

Species Reactivity:

Tested: Human, Gorilla, Gibbon, Monkey, Marmoset, Mouse, Rat, Hamster, Elephant, Panda, Dog, Bat, Bovine, Horse, Rabbit, Pig, Opossum, Xenopus

Expected from sequence similarity: Zebrafish

Storage:

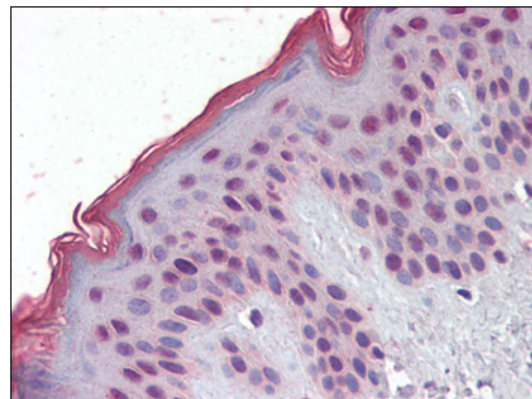
Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

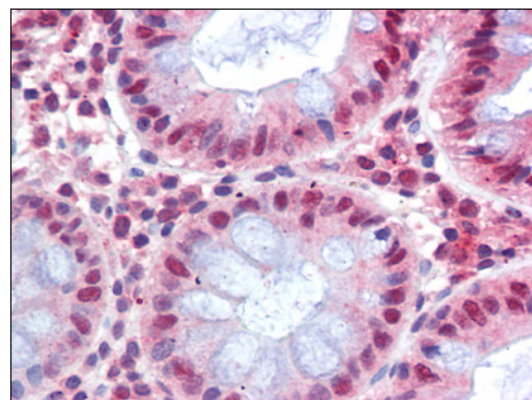
Shelf life: one year from despatch.

Pictures:

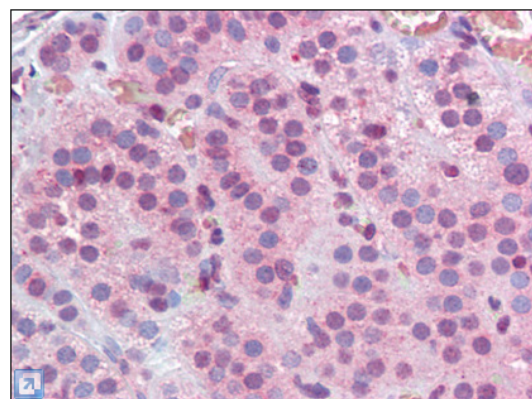
Human Skin (formalin-fixed, paraffin-embedded) stained with MBD2 antibody AP22575PU-N followed by biotinylated anti-goat IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.



Human Colon (formalin-fixed, paraffin-embedded) stained with MBD2 antibody AP22575PU-N followed by biotinylated anti-goat IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.



Human Adrenal (formalin-fixed, paraffin-embedded) stained with MBD2 antibody AP22575PU-N followed by biotinylated anti-goat IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.



Antibody (0.3 µg/ml) staining of Jurkat cell lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

