

MeCP2 Antibody (N-term S80)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11975A

Specification

MeCP2 Antibody (N-term S80) - Product Information

Application	WB, IHC-P, FC,E
Primary Accession	P51608
Other Accession	Q00566 , Q9Z2D6 , Q95LG8 , NP_001104262.1
Reactivity Predicted	Human Monkey, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	52441
Antigen Region	58-87

MeCP2 Antibody (N-term S80) - Additional Information

Gene ID 4204

Other Names

Methyl-CpG-binding protein 2, MeCp-2 protein, MeCp2, MECP2

Target/Specificity

This MeCP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 58-87 amino acids from the N-terminal region of human MeCP2.

Dilution

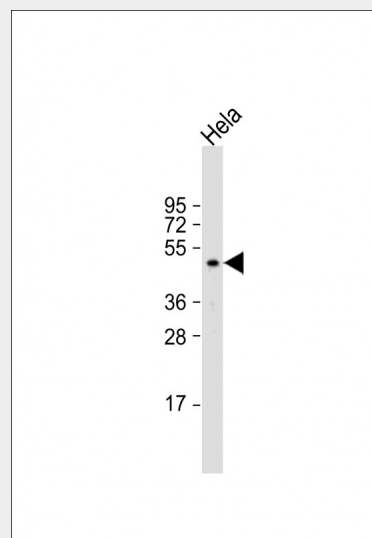
WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

Format

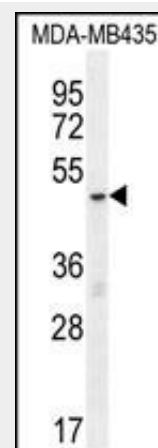
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2



Anti-MeCP2 Antibody (N-term S80) at 1:500 dilution + HeLa whole cell lysate
Lysates/proteins at 20 µg per lane.
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 52 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.



MeCP2 Antibody (pS80) (Cat. #AP11975a) western blot analysis in MDA-MB435 cell line lysates (35ug/lane). This demonstrates the MeCP2 antibody detected the MeCP2 protein (arrow).

weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

MeCP2 Antibody (N-term S80) is for research use only and not for use in diagnostic or therapeutic procedures.

MeCP2 Antibody (N-term S80) - Protein Information

Name MECP2

Function

Chromosomal protein that binds to methylated DNA. It can bind specifically to a single methyl-CpG pair. It is not influenced by sequences flanking the methyl-CpGs. Mediates transcriptional repression through interaction with histone deacetylase and the corepressor SIN3A. Binds both 5-methylcytosine (5mC) and 5-hydroxymethylcytosine (5hmC)-containing DNA, with a preference for 5-methylcytosine (5mC).

Cellular Location

Nucleus

{ECO:0000250|UniProtKB:Q9Z2D6}.

Note=Colocalized with methyl-CpG in the genome. Colocalized with TBL1X to the heterochromatin foci.

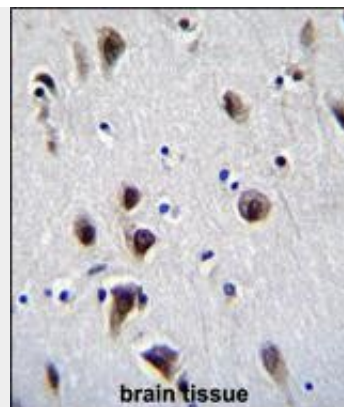
Tissue Location

Present in all adult somatic tissues tested.

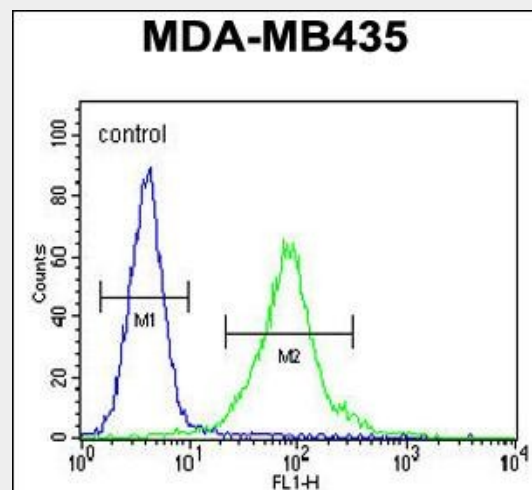
MeCP2 Antibody (N-term S80) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)



MeCP2 Antibody (N-term S80) (Cat. #AP11975a) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of MeCP2 Antibody (N-term S80) for immunohistochemistry. Clinical relevance has not been evaluated.



MeCP2 Antibody (N-term S80) (Cat. #AP11975a) flow cytometric analysis of MDA-MB435 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

MeCP2 Antibody (N-term S80) - 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. In contrast to other MBD family members, MECP2 is X-linked and subject to X inactivation. MECP2 is dispensible in stem cells, but is essential for embryonic development. MECP2 gene mutations are the cause of most cases of Rett syndrome, a progressive neurologic developmental disorder and one of the most common causes of mental retardation in females. [provided by RefSeq].

MeCP2 Antibody (N-term S80) - References

Shapiro, J.R., et al. Pediatr. Res. 68(5):446-451(2010)
Pintaudi, M., et al. Epilepsy Behav (2010) In press :
Jain, D., et al. Pediatr. Neurol. 43(1):35-40(2010)
Harvey, C.G., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 144B (3), 355-360 (2007) :
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