

Rabbit anti-Human, mouse MeCP2 Polyclonal Antibody | anti-MECP2 antibody

MeCP2 Antibody (S421)

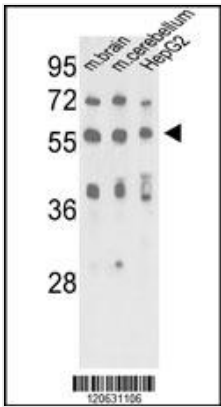
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28666	Rabbit	Human, mouse	Western Blot, ELISA

PRODUCT SYNONYMS

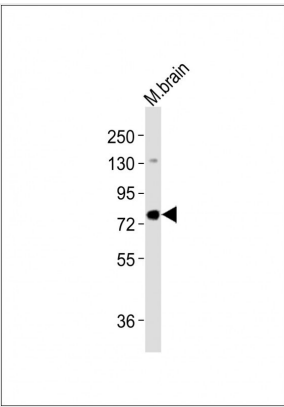
MeCP2; Polyclonal Antibody; MeCP2 Antibody (S421); Methyl-CpG-binding protein 2; MeCp-2 protein; MeCp2; MECP2; anti-MECP2 antibody

PRODUCT SPECIFICATIONS

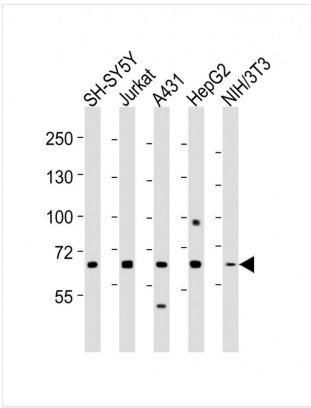
Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This MeCP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 400-428 amino acids from human MeCP2.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/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.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	400-428
Sequence Length	486
Applicable Applications for anti-MECP2 antibody	WB (Western Blot), ELISA
Application Notes	WB~~1:1000
Antigen Type	Synthetic Peptide
Antigen Source	MACFA
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



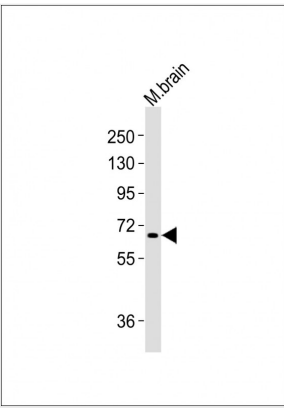
WB (Western Blot)
Western blot analysis of MeCP2-S421* in mouse brain, cerebellum tissue and HepG2 cell line lysates (35ug/lane). CP2 (arrow) was detected using the purified Pab.



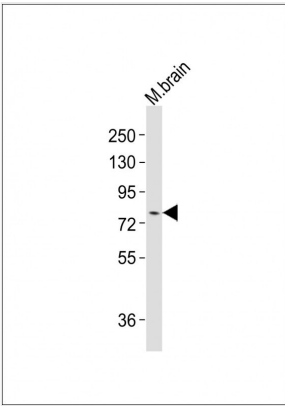
WB (Western Blot)
Anti-MeCP2 Antibody (S421) at 1:2000 dilution + mouse brain lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 52 kDa. Blocking/Dilution buffer: 5% NFDM/TBST.



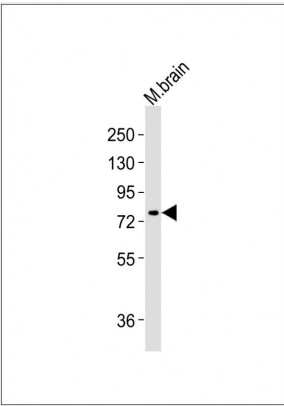
WB (Western Blot)
All lanes : Anti-MeCP2 Antibody (S421) at 1:2000 dilution. Lane 1: SH-SY5Y whole cell lysates. Lane 2: Jurkat whole cell lysates. Lane 3: A431 whole cell lysates. Lane 4: HepG2 whole cell lysates. Lane 5: NIH/3T3 whole cell lysates. Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 52 kDa. Blocking/Dilution buffer: 5% NFDM/TBST.



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ADDITIONAL INFORMATION

Related Product Information for anti-MECP2 antibody	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 some cases of Rett syndrome, a progressive neurologic developmental disorder and one of the most common causes of mental retardation in females.
References	dos Santos, J.M., et al., Neurosci. Lett. 379(1):13-16 (2005). Ylisaukko-Oja, T., et al., Am J Med Genet A 132(2):121-124 (2005). Schanen, C., et al., Am J Med Genet A 126(2):129-140 (2004). Shibayama, A., et al., Am. J. Med. Genet. B Neuropsychiatr. Genet. 128(1):50-53 (2004). Fang, J.Y., et al., World J. Gastroenterol. 10(23):3394-3398 (2004).

NCBI AND UNIPROT INFORMATION

NCBI GI #	548962064
NCBI GeneID	102135563
NCBI Accession #	NP_001271476.1
NCBI GenBank Nucleotide #	NM_001284547.1
UniProt Accession #	Q95LG8
Molecular Weight	52427
NCBI Official Full Name	methyl-CpG-binding protein 2
NCBI Official Symbol	MECP2
NCBI Protein Information	methyl-CpG-binding protein 2
UniProt Protein Name	Methyl-CpG-binding protein 2
UniProt Gene Name	MECP2
UniProt Synonym Gene Names	MeCp-2 protein; MeCp2
UniProt Entry Name	MECP2_MACFA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mecp2-antibody-western-blot-elisa/28666>