

## Rabbit MECP2 Polyclonal Antibody | anti-MECP2 antibody

MECP2 antibody - N-terminal region

| CATALOG # | HOST   | REACTIVITY                                                    | APPLICATIONS |
|-----------|--------|---------------------------------------------------------------|--------------|
| AAA197433 | Rabbit | Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat, Yeast | Western Blot |

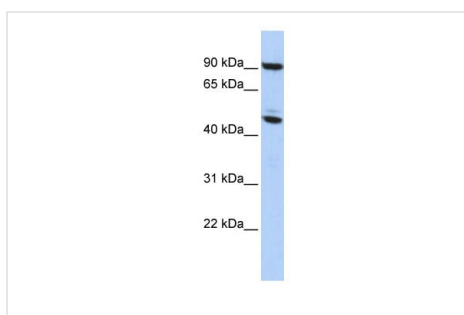
### PRODUCT SYNONYMS

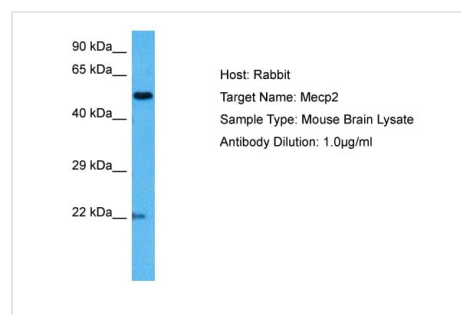
MECP2; Polyclonal Antibody; MECP2 antibody - N-terminal region; anti-MECP2 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                       |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                |
| Reactivity                                      | Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat, Yeast                                                                                         |
| Clonality                                       | Polyclonal                                                                                                                                            |
| Purity/Purification                             | Affinity Purified                                                                                                                                     |
| Form/Format                                     | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.                                                     |
| Sequence                                        | Synthetic peptide with the following region: KK EEKEGKHEPV QPSAHSAEP AEAGKAETSE GSGSAPAVPE ASASPKQR                                                   |
| Sequence Length                                 | 486                                                                                                                                                   |
| Applicable Applications for anti-MECP2 antibody | WB (Western Blot)                                                                                                                                     |
| Homology                                        | Cow: 100%; Dog: 100%; Guinea Pig: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Rabbit: 100%; Rat: 100%; Yeast: 91%                                    |
| Immunogen                                       | The immunogen is a synthetic peptide directed towards the N terminal region of human MECP2                                                            |
| Preparation and Storage                         | For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles. |

### IMAGES


**WB (Western Blot)**

WB Suggested Anti-MECP2 Antibody Titration: 0.2-1 ug/ml  
ELISA Titer: 1:31250  
Positive Control: HepG2 cell lysate

**WB (Western Blot)**

Host: Mouse  
Target Name: MECP2  
Sample Tissue: Mouse Brain  
Antibody Dilution: 1ug/ml

## ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-MECP2 antibody | <p>This is a rabbit polyclonal antibody against MECP2. It was validated on Western Blot using a cell lysate as a positive control.</p> <p>Target Description: 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. 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.</p> |
| Product Categories/Family for anti-MECP2 antibody   | <a href="#">Polyclonal</a> ; <a href="#">Transcription Factor</a> ; <a href="#">Transcription Regulation</a> ; <a href="#">Transcription Regulation</a> ; <a href="#">Chromatin &amp; Nuclear Signaling</a> ; <a href="#">Developmental Biology</a> ; <a href="#">Stem Cells</a> ; <a href="#">Epigenetics</a> ; <a href="#">Disease Related</a> ; <a href="#">DNA/RNA/Protein Interactions</a> ; <a href="#">Transcription Factors</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## NCBI AND UNIPROT INFORMATION

|                                  |                                                         |
|----------------------------------|---------------------------------------------------------|
| NCBI GI #                        | 4826830                                                 |
| NCBI GeneID                      | 4204                                                    |
| NCBI Accession #                 | NP_004983                                               |
| NCBI GenBank Nucleotide #        | NM_004992                                               |
| UniProt Accession #              | P51608                                                  |
| Molecular Weight                 | 52kDa                                                   |
| NCBI Official Full Name          | methyl-CpG-binding protein 2 isoform 1                  |
| NCBI Official Synonym Full Names | methyl-CpG binding protein 2                            |
| NCBI Official Symbol             | MECP2                                                   |
| NCBI Official Synonym Symbols    | RS; RTS; RTT; PPMX; MRX16; MRX79; MRXSL; AUTSX3; MRXS13 |
| NCBI Protein Information         | methyl-CpG-binding protein 2                            |
| UniProt Protein Name             | Methyl-CpG-binding protein 2                            |
| UniProt Gene Name                | <b>MECP2</b>                                            |
| UniProt Synonym Gene Names       | MeCp-2 protein; MeCp2                                   |
| UniProt Entry Name               | MECP2_HUMAN                                             |

**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/197433>