

## Rabbit MeCP2 Polyclonal Antibody | anti-MeCP2 antibody

MeCP2 (C-terminus) Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                             |
|-----------|--------|-------------------|------------------------------------------|
| AAA71668  | Rabbit | Human, Rat, Mouse | Immunocytochemistry, ELISA, Western Blot |

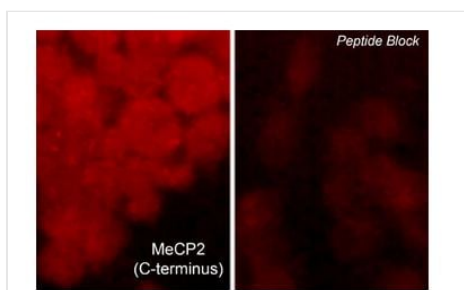
### PRODUCT SYNONYMS

MeCP2; Polyclonal Antibody; MeCP2 (C-terminus) Antibody; MeCP2 (C-terminus); anti-MeCP2 antibody

### PRODUCT SPECIFICATIONS

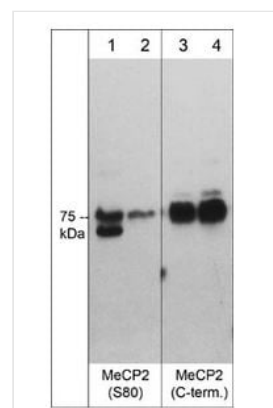
|                                                 |                                                                                                                                                                                                                                                                |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                                                         |
| Reactivity                                      | Human, Rat, Mouse                                                                                                                                                                                                                                              |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                                                     |
| Specificity                                     | This antibody was affinity purified using MeCP2 (C-terminus) peptide (without carrier). The antibody detects a 75kDa* protein corresponding to the molecular mass of MeCP2 on SDS-PAGE immunoblots of human PC3 cells, rat PC12 cells, and mouse brain tissue. |
| Form/Format                                     | Rabbit polyclonal, affinity-purified antibody is supplied in 100ul phosphate-buffered saline, 50% glycerol, 1mg/ml BSA, and 0.05% sodium azide.                                                                                                                |
| Applicable Applications for anti-MeCP2 antibody | ICC (Immunocytochemistry), ELISA, WB (Western Blot)                                                                                                                                                                                                            |
| Immunogen                                       | MeCP2 synthetic peptide (coupled to KLH) corresponding to amino acid residues at the C-terminus of mouse MeCP2. This peptide sequence is highly conserved in rat and human MeCP2, and has low homology to other nuclear proteins.                              |
| Preparation and Storage                         | Store at -20 degree C. Stable for 1 year.                                                                                                                                                                                                                      |

### IMAGES



#### ICC (Immunocytochemistry)

Immunocytochemical labeling of MeCP2 in rat PC12 cells differentiated with NGF. The cells were probed with MeCP2 (C-terminus) rabbit polyclonal antibody (MP4591) in the absence (left) or presence (right) of blocking peptide (MX4595). The antibody was detected using appropriate secondary antibody conjugated to DyLight 594.



#### WB (Western Blot)

Western blot of adult mouse brain tissue lysate. The blot lanes were untreated (lanes 1 & 3) or treated with lambda phosphatase (lanes 2 & 4) then probed with rabbit polyclonals anti-MeCP2 (Ser-80) (lanes 1 & 2) or anti-MeCP2 (C-terminus) (lanes 3 & 4).

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-MeCP2 antibody | Methyl-CpG Binding Protein 2 (MeCP2) was identified based on its affinity for methylated cytosines within DNA. As a chromatin-associated multifunctional protein, MeCP2 has been implicated in regulation of transcription and chromatin structure. Mutations of MeCP2 cause Rett syndrome, which results from neuronal dysfunction and impairment in cognitive and motor functions. Regulation of MeCP2 activity may involve phosphorylation at multiple sites. Ser-421 in MeCP2 is phosphorylated in response to neuronal activity, calcium influx, and is dependent on Cam-KII. Alanine mutation of Ser-421 leads to defects in synapse development and activity. Ser-80 in MeCP2 is phosphorylated in HeLa nuclear extracts and neurons. Alanine mutation of Ser-80 attenuates MeCP2 chromatin association and leads to locomotor deficits in transgenic knock-in mice. Thus, phosphorylation of MeCP2 may be important for altering its function during neuronal activity. |
| References                                          | Cohen, S. et al. (2011) Neuron 72:72.<br>Tao, J. et al. (2009) PNAS 106(12):4882.<br>Lewis, J.D. et al. (1992). Cell 69:905.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

NCBI AND UNIPROT INFORMATION

|                                  |                                           |
|----------------------------------|-------------------------------------------|
| NCBI GI #                        | 126517469                                 |
| NCBI GeneID                      | 17257                                     |
| NCBI Accession #                 | NP_001075448.1                            |
| NCBI GenBank Nucleotide #        | NM_001081979.2                            |
| UniProt Accession #              | Q9Z2D6; Q3TYG1; B1AUZ2; B1AUZ3            |
| Molecular Weight                 | 53,576 Da                                 |
| 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    | Mbd5; WBP10; 1500041B07Rik; D630021H01Rik |
| 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                     |

**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-immunocytochemistry-western-blot-elisa/71668>