

# MeCP2 Antibody

**ALTERNATE NAMES:** AUTSX3, MRX16, MRX79, MRXS13, MRXSL, PPMX, RTS, RTT

**CATALOG #:** 6827-25

**AMOUNT:** 25 µg

**HOST/ISOTYPE:** Rabbit

**IMMUNOGEN:** MeCP2 (Methyl-CpG-binding domain protein 2) synthetic peptide containing a sequence from the C-terminal conjugated to KLH

**FORM:** Liquid

**FORMULATION:** In PBS containing 0.05% azide and 0.05% ProClin 300.

**PURIFICATION:** Affinity purified

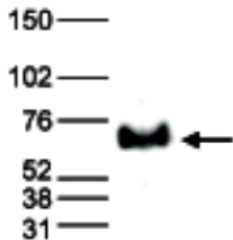
**SPECIES REACTIVITY:** Human.

**STORAGE CONDITIONS:** Store at -20°C; for long storage, store at -80°C. Avoid multiple freeze-thaw cycles.

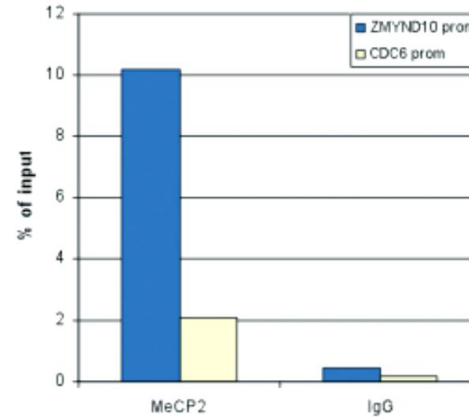
**DESCRIPTION:** MeCP2 is a chromosomal protein with abundant binding sites in the chromatin. It belongs to the family of methyl CpG binding proteins which also comprises MBD1, MBD2, MBD3 and MBD4. MeCP2 can bind specifically to methylated promoters, thereby repressing transcription. This transcriptional repression is mediated through interaction with histone deacetylase and the corepressor SIN3A. MeCP2 also is essential for development. Mutations in MeCP2 are the cause of several types of mental retardation including Rett syndrome, a progressive neurological disorder that causes mental retardation in females and mental retardation syndromic X-linked type 13, and may also be involved in Angelman syndrome and susceptibility to some types of autism.

**APPLICATION:** ChIP: 5 µg/ChIP, WB: 1:1000, ELISA: 1:1000.

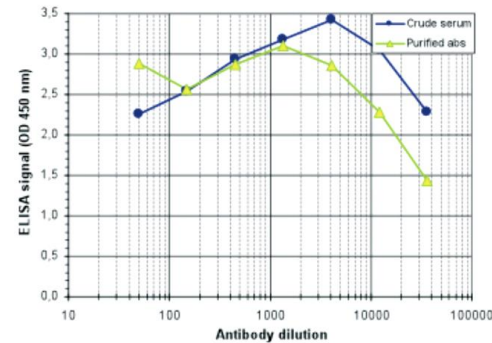
**Note:** This information is only intended as a guide. The optimal dilutions must be determined by the user.



Nuclear extracts (40 µg) from HeLa cells were analysed by Western blot using the antibody diluted 1:1,000 in TBS-Tween containing 5% skimmed milk. The position of the protein of interest is indicated on the right; the marker (in kDa) is shown on the left.



ChIP assays were performed using U2OS cells and the antibody and optimized PCR primer sets for qPCR. IgG (1 µg/IP) was used as a negative IP control. Quantitative PCR was performed with primers for the promoters of the ZMYND10 gene (used as a positive control) and CDC6 gene (used as a negative control). Figure shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis).



To determine the titer, an ELISA was performed using a serial dilution of the antibody. The antigen used was a peptide containing the histone modification of interest. By plotting the absorbance against the antibody dilution the titer of the antibody was estimated to be 1:2400.

**RELATED PRODUCTS:**

- MeCP2 (aa 11-25; aa 181-195) Antibody (Cat # 6105-50)
- MeCP2 Antibody (Cat # 3199-100)

**FOR RESEARCH USE ONLY! Not to be used on humans.**

