# [KO Validated] MECP2 Rabbit Polyclonal Antibody

**Protein Background** 

different isoforms.

Immunogen information

**CAB0707** 



# **Product Information** Size:

20uL, 50uL, 100uL, 200uL

# **Observed MW:**

60kDa/80kDa

**Calculated MW:** 

52kDa/53kDa

# **Applications:**

WB IHC

### **Reactivity:**

Human, Mouse

# **Antibody Information**

**Recommended dilutions:** 

WB 1:500 - 1:1000 IHC 1:50

### Synonyms:

Gene ID:

Uniprot P51608

4204

MECP2; AUTSX3; MRX16; MRX79; MRXS13; MRXSL; PPMX; RS; RTS; RTT

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. Alternative splicing results in multiple transcript variants encoding

# Immunogen:

Recombinant fusion protein containing a sequence corresponding to amino acids 1-280 of human MECP2 (NP\_004983.1).

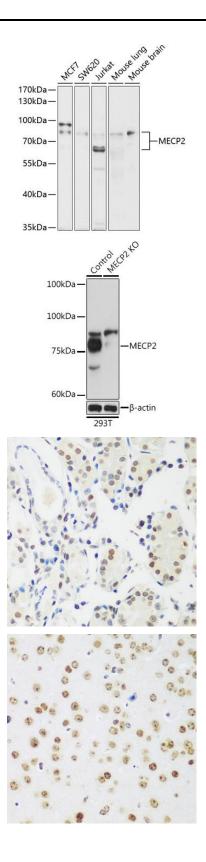
# **Isotype:** lgG

- 1:100 Source: Rabbit

# Storage:

Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

# **Purification:** Affinity purification



Western blot analysis of extracts of various cell lines, using MECP2 antibody (CAB0707) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (CABM00020). Exposure time: 90s.

Western blot analysis of extracts from normal (control) and MECP2 Rabbit pAb knockout (KO) 293T cells, using MECP2 Rabbit pAb antibody (CAB0707) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (CABM00020). Exposure time: 1s.

Immunohistochemistry of paraffin-embedded human gastric cancer using MECP2 antibody (CAB0707) at dilution of 1:100 (40x lens).

Immunohistochemistry of paraffin-embedded mouse brain using MECP2 antibody (CAB0707) at dilution of 1:100 (40x lens).