

# [KO Validated] MECP2 Rabbit pAb

Catalog No.: A0707 **KO** Validated

## Basic Information

**Catalog No.**

A0707

**Observed MW**

60kDa/80kDa

**Calculated MW**

52kDa/53kDa

**Category**

Primary antibody

**Applications**

WB, IHC

**Cross-Reactivity**

Human, Mouse

## Recommended Dilutions

<b>WB</b>	1:500 - 1:1000
<b>IHC</b>	1:50 - 1:100

## Contact

 | [www.abclonal.com](http://www.abclonal.com)

## Background

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 different isoforms.

## Immunogen Information

<b>Gene ID</b>	<b>Swiss Prot</b>
4204	P51608

**Immunogen**

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

**Synonyms**

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

## Product Information

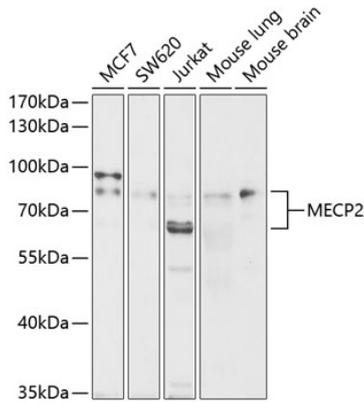
<b>Source</b>	<b>Isotype</b>	<b>Purification</b>
Rabbit	IgG	Affinity purification

**Storage**

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

## Validation Data



Western blot analysis of extracts of various cell lines, using MECP2 antibody (A0707) at 1:1000 dilution.

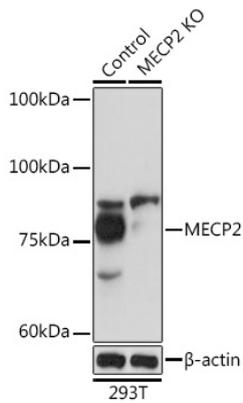
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 90s.



Western blot analysis of extracts from normal (control) and MECP2 Rabbit pAb knockout (KO) 293T cells, using MECP2 Rabbit pAb antibody (A0707) at 1:1000 dilution.

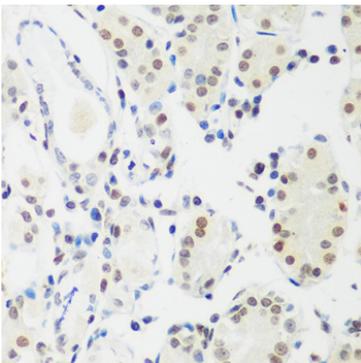
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.

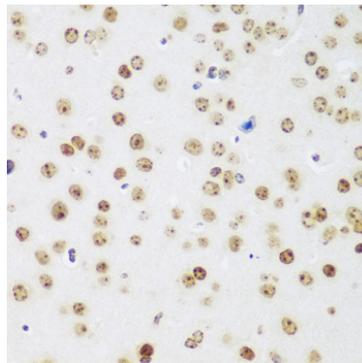
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 1s.



Immunohistochemistry of paraffin-embedded human gastric cancer using MECP2 antibody (A0707) at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded mouse brain using MECP2 antibody (A0707) at dilution of 1:100 (40x lens).