

A Reliable Research Partner in Life Science and Medicine

# **Recombinant MECP2 Monoclonal Antibody**

catalog number: AN300680L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

## **Description**

Reactivity Human; Mouse; Rat

Immunogen Recombinant Human MECP2 protein

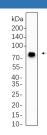
HostRabbitIsotype $IgG,\kappa$ CloneB619PurificationProtein A

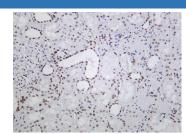
Buffer PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

# Applications Recommended Dilution

**IHC** 1:200-1:1000 **WB** 1:2000-1:10000

#### Data





Western Blot with Recombinant MECP2 Monoclonal Immunohistochemistry of paraffin-embedded human kidney Antibody at dilution of 1:1000 dilution. Lane A: SH-SY5Y cell using Recombinant MECP2 Monoclonal Antibody at dilution lysate.

of 1:200.

Observed-MW:75 kDa Calculated-MW:52 kDa

## **Preparation & Storage**

Storage Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

Shipping Ice bag

## **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 inactivatio n. 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.

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