# MECP2 rabbit monoclonal antibody

Catalog # H00004204-K Size 100 ug x up to 3

## Specification

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| **Product Description** | Rabbit monoclonal antibody raised against a human MECP2 peptide using ARM Technology. |
| **Immunogen** | A synthetic peptide of human MECP2 is used for rabbit immunization.<br>Customer or Abnova will decide on the preferred peptide sequence. |
| **Host** | Rabbit |
| **Library Construction** | Non-fusion antibody library from rabbit spleen (ARM Technology). |
| **Expression** | Overexpression vector and transfection into 293H cell line. |
| **Reactivity** | Human |
| **Purification** | Protein A |
| **Isotype** | IgG |
| **Quality Control Testing** | Antibody reactive against human MECP2 peptide by ELISA and mammalian transfected lysate by W estern Blot. |
| **Storage Buffer** | In 1x PBS, pH 7.4 |
| **Storage Instruction** | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |
| **Deliverable** | Up to three rabbit IgG clones of 100 ug each will be delivered to customer. |
| **Note** | 1. Customer may provide cell or tissue lysate for antibody screening.<br>2. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering in cluding $F(ab)_2$, IgG, scFv and different Fc and non-Fc conjugates per customer request. |

## Applications

- Western Blot (Transfected lysate)

  Protocol Download

- ELISA

## Gene Info — MECP2

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| **Entrez GeneID** | 4204 |
| **GeneBank Accession#** | MECP2 |
| **Gene Name** | MECP2 |
| **Gene Alias** | AUTSX3, DKFZp686A24160, MRX16, MRX79, MRXS13, MRXSL, PPMX, RTS, RTT |
| **Gene Description** | methyl CpG binding protein 2 (Rett syndrome) |
| **Omim ID** | 105830 300005 300055 300260 300496 300673 312750 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | DNA methylation is the major modification of eukaryotic genomes and plays an essential role in m ammalian development. Human proteins MECP2, MBD1, MBD2, MBD3, and MBD4 comprise a f amily 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 methylat ed DNA. MECP2, MBD1 and MBD2 can also repress transcription from methylated gene promot ers. In contrast to other MBD family members, MECP2 is X-linked and subject to X inactivation. M ECP2 is dispensible in stem cells, but is essential for embryonic development. MECP2 gene mut ations are the cause of most cases of Rett syndrome, a progressive neurologic developmental di sorder and one of the most common causes of mental retardation in females. [provided by RefSe q |
| **Other Designations** | OTTHUMP00000026021\|methyl CpG binding protein 2 |

## Disease

- Alzheimer disease
- Angelman syndrome
- Attention Deficit Disorder with Hyperactivity
- Autistic Disorder
- Brain Diseases
- Cardiovascular Diseases
- Child Development Disorders

- Chromosome Aberrations
- Cognition Disorders
- Developmental Disabilities
- Diabetes Mellitus
- Disease Progression
- Edema
- Epilepsy
- Fractures
- Fragile X syndrome
- Genetic Diseases
- Genetic Predisposition to Disease
- Lupus Erythematosus
- Mental Disorders
- Mental Retardation
- Microcephaly
- Motor Skills
- Movement Disorders
- NARP
- Nervous System Diseases
- Obesity
- Pain
- Prader-Willi syndrome
- Psychomotor Performance
- Psychotic Disorders
- Rett syndrome
- Schizophrenia

- Scoliosis
- Seizures
- Stereotypic Movement Disorder