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# Overview 400 μL Quantity: Target: MECP2 Binding Specificity: AA 1-30, N-Term Reactivity: Human Host: Rabbit Clonality: Polyclonal Conjugate: This MECP2 antibody is un-conjugated Application: Western Blotting (WB), Flow Cytometry (FACS) **Product Details** Immunogen: This MeCP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human MeCP2. Clone: RB2387 Ig Fraction Isotype: Predicted Reactivity: Pr This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by Purification: dialysis against PBS. **Target Details** MECP2 Target:

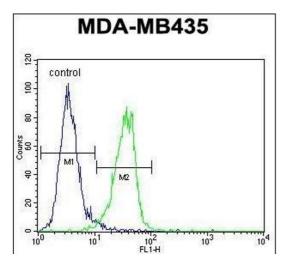
## **Target Details**

Alternative Name:	MeCP2 (MECP2 Products)
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 some cases of Rett syndrome, a progressive neurologic developmental disorder and one of the most common causes of mental retardation in females.
Molecular Weight:	52441
Gene ID:	4204
NCBI Accession:	NP_001104262, NP_004983
UniProt:	P51608
Pathways:	Inositol Metabolic Process, Chromatin Binding, Synaptic Membrane
Application Details	
Application Notes:	WB: 1:1000. FC: 1:10~50
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.

Expiry Date:

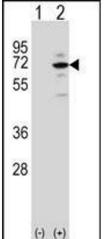
6 months

## **Images**



### **Flow Cytometry**

**Image 1.** MeCP2 Antibody (N-term) (ABIN650708 and ABIN2839305) flow cytometric analysis of MDA-M cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



### **Western Blotting**

**Image 2.** Western blot analysis of MeCP2 (arrow) using rabbit polyclonal MeCP2 Antibody (E11) (ABIN650708 and ABIN2839305). 293 cell lysates (2 μg/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the MeCP2 gene.