

## Anti-MeCP2 (Ser80) Antibody

Our Anti-MeCP2 (Ser80) phosphospecific primary antibody from PhosphoSolutions is rabbit polyclonal.

Catalog # AN1444

## **Product Information**

Application WB, IHC
Primary Accession P51608
Host Rabbit
Clonality Polyclonal
Isotype IgG
Calculated MW 52441

## **Additional Information**

**Other Names** 

Gene ID 4204

AUTSX 3 antibody, AUTSX3 antibody, DKFZp686A24160 antibody, Mbd 5 antibody, Mbd5 antibody, MECP 2 antibody, MeCP 2 protein antibody, MeCP-2 protein antibody, Mecp2 antibody, MECP2\_HUMAN antibody, Methyl CpG binding protein 2 (Rett syndrome) antibody, Methyl CpG binding protein 2 antibody, Methyl-CpG-binding protein 2 antibody, MRX 16 antibody, MRX 79 antibody, MRX16 antibody, MRX79 antibody, MRXS 13 antibody, MRXSL antibody, PPMX antibody, RS antibody, RTS antibody, RTT

antibody, WBP 10 antibody, WBP10 antibody

**Target/Specificity** MECP2 (Methyl-CpG Binding Protein 2) is a chromosomal protein that binds to

methylated DNA. It can bind specifically to a single methyl-CpG pair and is not influenced by sequences flanking the methyl-CpGs. MECP2 has been shown to

mediate transcriptional repression through interaction with histone

deacetylase and the corepressor SIN3A. Defects in MECP2 are the cause of Rett syndrome (RTT). RTT is an X-linked dominant disease, it is a progressive neurologic developmental disorder and one of the most common causes of

mental retardation in females. Recent studies have reported a new

phosphorylation site at Ser-80. Phosphorylation and dephosphorylation of this site may be involved in modulating the dynamic function of MECP2 in neurons transiting between resting and active states within neural circuits

that underlie behaviors. (Tao et al., 2009)

**Dilution** WB~~1:1000 IHC~~1:100~500

**Format** Serum

**Storage** 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.

**Precautions** Anti-MeCP2 (Ser80) Antibody is for research use only and not for use in

diagnostic or therapeutic procedures.

Shipping Blue Ice

## **Background**

MECP2 (Methyl-CpG Binding Protein 2) is a chromosomal protein that binds to methylated DNA. It can bind specifically to a single methyl-CpG pair and is not influenced by sequences flanking the methyl-CpGs. MECP2 has been shown to mediate transcriptional repression through interaction with histone deacetylase and the corepressor SIN3A. Defects in MECP2 are the cause of Rett syndrome (RTT). RTT is an X-linked dominant disease, it is a progressive neurologic developmental disorder and one of the most common causes of mental retardation in females. Recent studies have reported a new phosphorylation site at Ser-80. Phosphorylation and dephosphorylation of this site may be involved in modulating the dynamic function of MECP2 in neurons transiting between resting and active states within neural circuits that underlie behaviors. (Tao et al., 2009)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.