

## Anti-MeCP2 (Ser421) Antibody

Our Anti-MeCP2 (Ser421) rabbit polyclonal phosphospecific primary antibody from PhosphoSolutions is  
Catalog # AN1445

### Product Information

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<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">Q9Z2D6</a>
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG
<b>Calculated MW</b>	52307

### Additional Information

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<b>Gene ID</b>	17257
<b>Other Names</b>	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, MRXS13 antibody, MRXSL antibody, PPMX antibody, RS antibody, RTS antibody, RTT antibody, WBP 10 antibody, WBP10 antibody
<b>Target/Specificity</b>	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 (Nan et al., 1998). Defects in MeCP2 are the cause of Rett syndrome (RTT) (Amir et al., 1999). 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-421. Phosphorylation and dephosphorylation of this site may be involved in regulation of behavioral responses to chronic antidepressant treatment (Hutchinson et al., 2012).
<b>Dilution</b>	WB~~1:1000
<b>Format</b>	Antigen Affinity Purified from Pooled Serum
<b>Storage</b>	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.
<b>Precautions</b>	Anti-MeCP2 (Ser421) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
<b>Shipping</b>	Blue Ice

## Background

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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 (Nan et al., 1998). Defects in MeCP2 are the cause of Rett syndrome (RTT) (Amir et al., 1999). 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-421. Phosphorylation and dephosphorylation of this site may be involved in regulation of behavioral responses to chronic antidepressant treatment (Hutchinson et al., 2012).

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