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530-758-4400

PRODUCT DATASHEET

Anti-MeCP2 (Ser-421), Phosphospecific Antibody

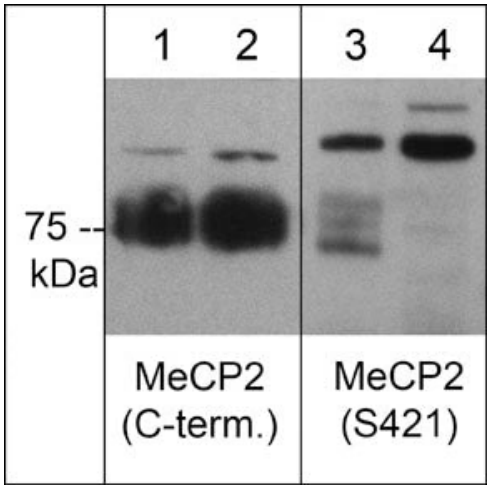
phosphosolutions ANTIBODIES THAT WORK

Product Details

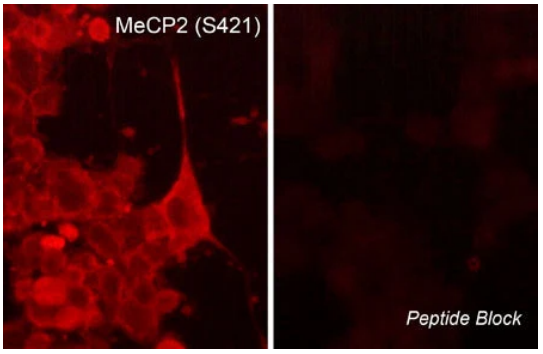
Available Variants	100 µL (SKU:MP4611)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	MECP2
Host Species	Rabbit
Format	Antigen Affinity Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, ICC, WB
Dilution Ranges	WB: 1:500 ICC: 1:250
Species Reactivity	Human, Mouse, Rat
Immunogen	phospho-MeCP2 (Ser-421) synthetic peptide (coupled to KLH) corresponding to amino acid residues surrounding serine 421 in mouse MeCP2. This peptide sequence is highly conserved in rat and human MeCP2, and has low homology to other nuclear proteins.
Specificity	The antibody detects a 75 kDa* protein corresponding to the molecular mass of MeCP2 on SDS-PAGE immunoblots of human PC3 cells treated with calyculin A and in mouse brain tissue. These reactivities are not observed after lambda phosphatase treatment.
Molecular Weight	75
Quality Control	Western blots performed on each lot.

Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
UniProt ID	Q9Z2D6 UniProt Summary: Chromosomal protein that binds to methylated DNA. It can bind specifically to a single methyl-CpG pair. It is not influenced by sequences flanking the methyl-CpGs. Mediates transcriptional repression through interaction with histone deacetylase and the corepressor SIN3A. Binds both 5-methylcytosine (5mC) and 5-hydroxymethylcytosine (5hmC)-containing DNA, with a preference for 5-methylcytosine (5mC).
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
Post Translational Modification Type	Phosphorylated
Post Translational Modification Residue	Ser-421
NCBI Gene ID	17257

Product Images



Western blot of human PC3 cells treated with calyculin A (25 mM) for 15 min. The blot lanes were untreated (lanes 1 & 3) or treated with lambda phosphatase (lanes 2 & 4) then probed with rabbit polyclonals anti-MeCP2 (C-terminus) (lanes 1 & 2) or anti-MeCP2 (Ser-421) (lanes 3 & 4).



Immunocytochemical labeling of MeCP2 phosphorylation in rat PC12 cells differentiated with NGF. The cells were probed with MeCP2 (Ser-421) rabbit polyclonal antibody (MP4611) in the absence (left) or presence (right) of blocking peptide (MX4615). The antibody was detected using appropriate secondary antibody conjugated to DyLight® 594.