

Product datasheet

info@arigobio.com

ARG52332 anti-MeCP2 phospho (Ser421) antibody

Package: 50 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes MeCP2 phospho (Ser421)

Tested Reactivity Ms

Predict Reactivity Hu, NHuPrm

Tested Application WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name MeCP2
Species Mouse

Immunogen Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser421 conjugated to

KLH

Conjugation Un-conjugated

Alternate Names MRXSL; RS; MeCp2; Methyl-CpG-binding protein 2; MeCp-2 protein; RTT; AUTSX3; RTS; MRX79; PPMX;

MRXS13; MRX16

Application Instructions

Application table	Application	Dilution
	WB	1:1000
Application Note	Specific for the ~55 kDa truncated MeCP2 protein phosphorylated at Ser421. Immunolabeling of the MeCP2 band is blocked by preadsorption with the phospho-peptide used as antigen but not by the corresponding dephospho-peptide. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations	

Properties

Form Liquid

Purification Affinity Purified

Buffer 10 mM HEPES (pH 7.5), 150 mM NaCl, 0.1 mg/ml BSA and 50% Glycerol

should be determined by the scientist.

Stabilizer 0.1 mg/ml BSA, 50% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links GenelD: 17257 Mouse

Swiss-port # Q9Z2D6 Mouse

Gene Symbol MECP2

Gene Full Name methyl CpG binding protein 2

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 (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 Ser421. Phosphorylation and dephosphorylation of this site may be involved in regulation of behavioral responses to chronic antidepressant treatment

(Hutchinson et al., 2012).

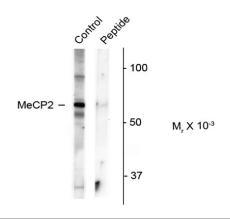
Research Area Gene Regulation antibody; Neuroscience antibody

Calculated Mw 52 kDa

PTM Phosphorylated on Ser-423 in brain upon synaptic activity, which attenuates its repressor activity and

seems to regulate dendritic growth and spine maturation.

Images



ARG52332 anti-MeCP2 phospho (Ser421) antibody WB image

Western blot: Mouse whole brain showing specific immunolabeling of the $^{\sim}$ 55 kDa truncated MeCP2 protein phosphorylated at Ser421 by using ARG52332 anti-MeCP2 phospho (Ser421) antibody. Immunolabeling is greatly reduced by preadsorption with the phospho-peptide used as antigen (peptide).