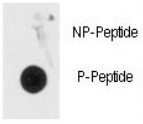
Phospho-MeCP2 Antibody (pS80) (F48587)

Catalog No.	Formulation	Size
F48587-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F48587-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Mouse, Primate, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P51608
Applications	Dot Blot : 1:500
Limitations	This phospho-MeCP2 antibody is available for research use only.



Dot blot analysis of phospho-MeCP2 antibody. 50ng of phos-peptide or nonphos-peptide per dot were spotted.

Description

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.

Application Notes

Titration of the phospho-MeCP2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This phospho-MeCP2 antibody was produced from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding pS80 of human MeCP2.

Storage

Aliquot the phospho-MeCP2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.