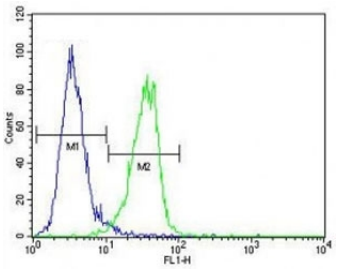
MeCP2 Antibody (F48099)

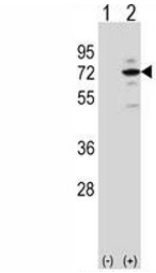
Catalog No.	Formulation	Size
F48099-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F48099-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Primate
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	P51608
Applications	Western Blot : 1:1000 Flow Cytometry : 1:10-1:50
Limitations	This MeCP2 antibody is available for research use only.



MeCP2 antibody flow cytometric analysis of MDA-MB435 cells (green) compared to a negative control (blue). FITC-conjugated goat-anti-rabbit secondary Ab was used for the analysis.



Western blot analysis of MeCP2 antibody and 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (2) with the MeCP2 gene. Observed molecular weight: ~55 kDa and ~75 kDa.

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 MeCP2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 1-30 from the human protein was used as the immunogen for this MeCP2 antibody.

Storage

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

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