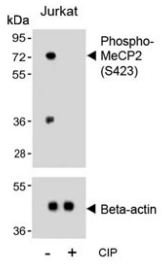
Phospho-MeCP2 Antibody (pS423) (F54806)

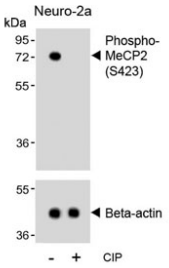
Catalog No.	Formulation	Size
F54806-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54806-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

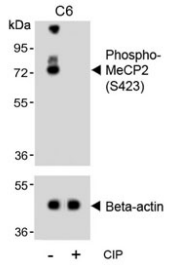
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
UniProt	P51608
Applications	Immunohistochemistry (FFPE) : 1:50-1:100 Western Blot : 1:500
Limitations	This phospho-MeCP2 antibody is available for research use only.



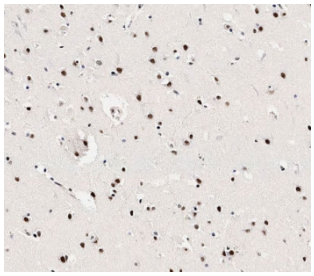
Western blot testing of lysate from human Jurkat cells treated or non-treated with CIP/CIAP (calf intestinal alkaline phosphatase) with phospho-MeCP2 antibody. Commonly observed molecular weights: ~55 kDa and ~75 kDa.



Western blot testing of lysate from mouse Neuro-2a cells treated or non-treated with CIP/CIAP (calf intestinal alkaline phosphatase) with phospho-MeCP2 antibody. Commonly observed molecular weights: ~55 kDa and ~75 kDa.



Western blot testing of lysate from rat C6 cells treated or non-treated with CIP/CIAP (calf intestinal alkaline phosphatase) with phospho-MeCP2 antibody. Commonly observed molecular weights: ~55 kDa and ~75 kDa.



IHC testing of FFPE human brain tissue with phospho-MeCP2 antibody. HIER: steam section in pH9 EDTA for 20 min and allow to cool prior to staining.

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

The stated application concentrations are suggested starting points. Titration of the phospho-MeCP2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A synthetic peptide corresponding the amino acids surrounding phosphorylated S423 was used as the immunogen for the phospho-MeCP2 antibody.

Storage

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

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com