

Datasheet

5-Methylcytosine monoclonal antibody, clone 5MC-CD

Catalog Number: MAB6766

Regulation Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against 5-Methylcytosine.

Clone Name: 5MC-CD

Immunogen: 5-Methylcytosine conjugated with BSA.

Host: Mouse

Applications: ICC, IF

(See our web site product page for detailed applications information)

Protocols: See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Form: Liquid

Isotype: IgM

Recommend Usage: Immunocytochemistry

(1:50-1:100)

Western Blot (~1:1000)

The optimal working dilution should be determined by the end user.

Storage Buffer: In antiserum (0.05% sodium azide)

Storage Instruction: Store at -20°C. For long term storage store at -80°C.

Aliquot to avoid repeated freezing and thawing.

References:

1. The SRA protein Np95 mediates epigenetic inheritance by recruiting Dnmt1 to methylated DNA. Sharif J, Muto M, Takebayashi S, Suetake I, Iwamatsu A, Endo TA, Shinga J, Mizutani-Koseki Y, Toyoda T, Okamura K, Tajima S, Mitsuya K, Okano M, Koseki H. Nature. 2007 Dec 6;450(7171):908-12. Epub 2007 Nov 11.
2. A chloroplast-resident DNA methyltransferase is responsible for hypermethylation of chloroplast genes in

Chlamydomonas maternal gametes. Nishiyama R, Ito M, Yamaguchi Y, Koizumi N, Sano H. Proc Natl Acad Sci U S A. 2002 Apr 30;99(9):5925-30.

3. Detection of heavy methylation in human repetitive DNA subsets by a monoclonal antibody against 5-methylcytosine. Sano H, Imokawa M, Sager R. Biochim Biophys Acta. 1988 Nov 10;951(1):157-65.