

## 5-Methylcytosine / 5-mC antibody [GT9076]

Cat. No. GTX60803

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Application	ICC/IF, Dot, FISH, MeDIP
Reactivity	Species independent

Package

50 µg

## APPLICATION

## Application Note

\*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
ICC/IF	1:1,000
Dot	1:600
FISH	1:200 - 1:1,000
MeDIP	1-5 µg

Not tested in other applications.

## PROPERTIES

Form	Liquid
Buffer	PBS
Preservative	0.05% Sodium azide
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Concentration	1.3 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	5-mC (5-methylcytosine) conjugated to BSA.
Purification	Protein A purified
Conjugation	Unconjugated

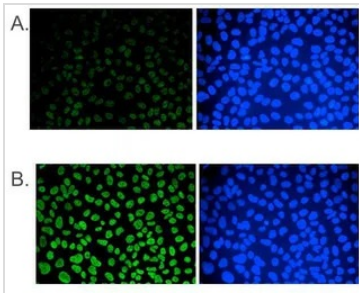
## Note

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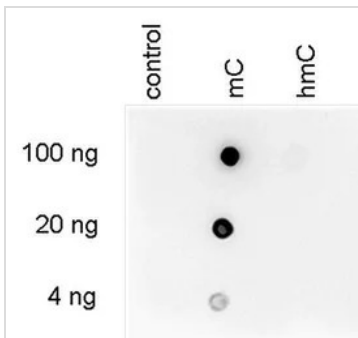
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**DATA IMAGES**

**GTx60803 ICC/IF Image**

ICC/IF analysis of 2.5% PFA fixed U2OS cells using GTx60803 5-Methylcytosine / 5-mC antibody [GT9076].  
Figure A : cells were immunofluorescently labelled with the 5-mC antibody after incubation of the antibody with 50  $\mu$ M mCTP (left) or with DAPI (right).

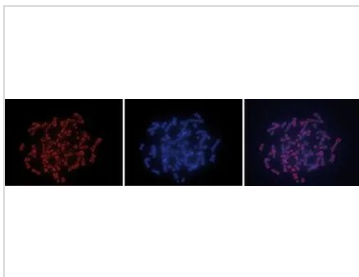
Figure B : staining of the cells with the 5-mC antibody after incubation of the antibody with 50  $\mu$ M hmCTP and with DAPI.

Dilution : 1:500


**GTx60803 Dot Image**

Dot blot analysis of 4 - 100 ng (equivalent of 5 to 0.2 pmol of C-bases) hmC, mC and C controls using GTx60803 5-Methylcytosine / 5-mC antibody [GT9076].

Dilution : 1:600

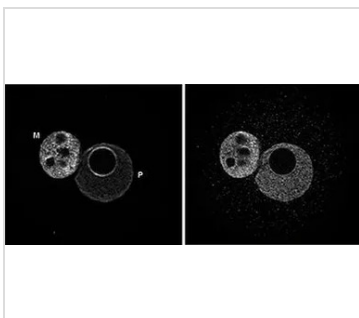

**GTx60803 FISH Image**

FISH (Fluorescence in situ hybridization) analysis of metaphase chromosomes from HeLa cells (treated with 0.1  $\mu$ g/ml colcemid for 1 - 2 hours) using GTx60803 5-Methylcytosine / 5-mC antibody [GT9076].

Red : Primary antibody

Blue : DAPI

Dilution : 1:1000


**GTx60803 ICC/IF Image**

ICC/IF analysis of 4% PFA-fixed mouse embryos cells fixed in the one-cellular stage (after blocking with PBS containing 2% BSA, the cells were treated with 2N HCl) using GTx60803 5-Methylcytosine / 5-mC antibody [GT9076]. Both the maternal (M) and paternal (P) pronuclei are stained.

Left : Primary antibody

Right : Anti- single stranded DNA antibody

Permeabilization : 0.5% Triton X-100 for 30 mins

Dilution : 1:200



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