

5-Carboxylcytosine / 5-caC antibody

Cat. No. GTX60801

| | |
|---------------------|-----------------------------|
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Applications | ICC/IF, IP, Dot, ChIP assay |
| Reactivity | Species independent |

References (1)

Package

50 µg

Applications

Application Note

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

| Suggested dilution | Recommended dilution |
|--------------------|----------------------|
| ICC/IF | 1:500 |
| IP | 1-5 µg |
| Dot | 1:500 - 1:1,000 |
| ChIP assay | Assay dependent |

Not tested in other applications.

Properties

| | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form | Liquid |
| Buffer | PBS, 30% Glycerol |
| 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 mg/ml (Please refer to the vial label for the specific concentration.) |
| Immunogen | 5-Carboxylcytosine (5ca-CMP monophosphate) conjugated to BSA. |
| Purification | Purified by affinity chromatography |
| Conjugation | Unconjugated |

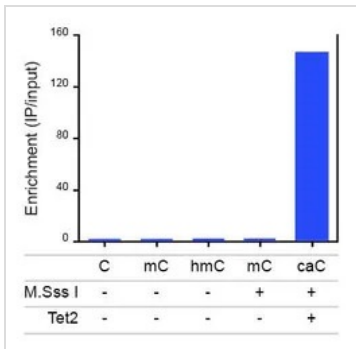
Note

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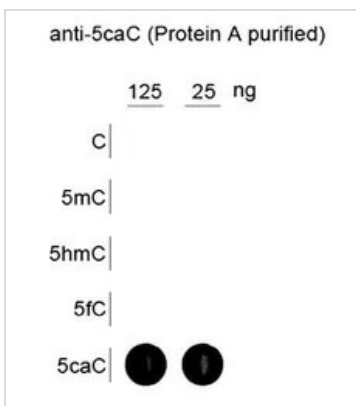
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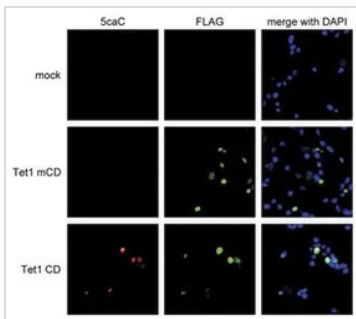
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DATA IMAGES

GTX60801 ChIP assay Image

ChIP analysis of 2 µg of J1 ES genomic DNA spiked with 1 pg of a control DNA fragment (approximately 700 bp from the RFP (Ring finger protein) gene) containing different cytosine modifications using GTX60801 5-Carboxylcytosine / 5-caC antibody. The mC and hmC control DNA was generated by PCR with the corresponding nucleotide. The caC control fragment was obtained by in vitro methylation using M.SssI methyltransferase followed by oxidation with purified Tet2. The IP'd DNA was subsequently analysed by qPCR using primers specific for the control DNA fragments and for GAPDH, used as a negative control.


GTX60801 Dot Image

Dot blot analysis of 25 and 125 ng of the synthetic oligonucleotides containing different modified C-bases (indicated in red) using GTX60801 5-Carboxylcytosine / 5-caC antibody.
Dilution : 1:1,000


GTX60801 ICC/IF Image

ICC/IF analysis of 293T cells overexpressing either the mouse FLAG-tagged wild-type Tet1 (Tet1 CD) or the catalytically inactive FLAG-tagged C-terminal domain of Tet1 (Tet1 mCD) using GTX60801 5-Carboxylcytosine / 5-caC antibody.
Dilution : 1:500



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