

## Product datasheet for **TA160024**

### 3-mC Rabbit Polyclonal Antibody

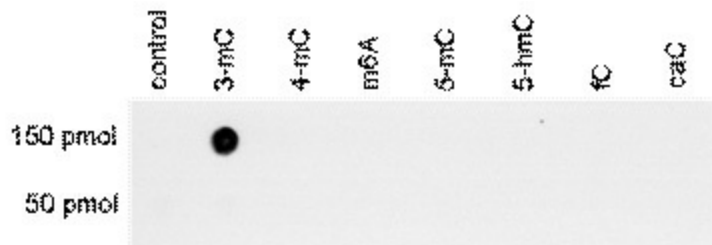
#### Product data:

Product Type:	Primary Antibodies
Applications:	Dot
Recommended Dilution:	Dot blotting (1:400)
Reactivity:	Human, Mouse, Broad
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-3-mC antibody: 3-methylcytosine (3-mC) conjugated to BSA.
Concentration:	lot specific
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Background:	3-methylcytosine arises by erroneous methylation of DNA through spontaneous exposure to endogenous S-adenosyl methionine (SAM). Since the N3-position in cytosine is protected in double stranded DNA, this phenomenon mainly occurs in single stranded DNA. The resulting 3-mC is toxic and mutagenic and increased levels of 3-mC seem to impair cell proliferation. Therefore, it has to be repaired by the cell. This is established by oxidative demethylation, which is catalyzed by the AlkB protein.



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## Product images:



Dot blot analysis using the antibody against 3-mC. To demonstrate the specificity of the antibody against 3-mC, a Dot Blot analysis was performed using synthetic oligonucleotides containing different modified bases. 150 and 50 pmol of the respective oligo' were spotted on the membrane. The antibody was diluted :400 in PBS-T containing 10 % skimmed milk and 1% BSA. Image shows a high specificity of the antibody for the oligonucleotide with the 3-methylcytosine modification.