

3-Methylcytosine antibody (pAb)

Catalog No.: R A9049

Basic Information

Molecular weight

Category

Polyclonal antibody

Applications

DB, ICC, IF

Cross-Reactivity

Human, Mouse, Not Species Specific

Background

Methylation of DNA can occur non-enzymatically at the nitrogen-three of the cytosine base through spontaneous exposure to endogenous S-adenosyl methionine (SAM). The resulting 3-methylcytosine (3-mC) is mutagenic and must be repaired, which occurs in humans through the base excision repair (BER) or dealkylation via human homologues of the E. coli AlkB protein. 3-methylcytosine is present in human cell lines and increased levels of 3-mC impair proliferation.

Recommended Dilutions

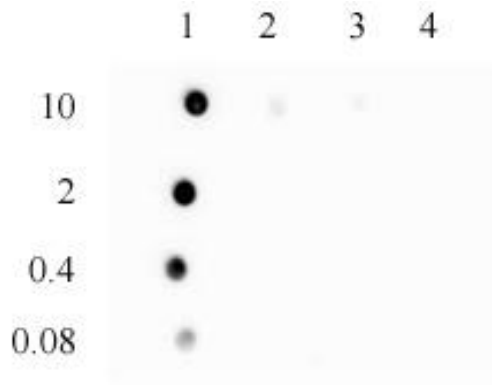
DB 0.1-1 µg/ml

Product Information

Source	Rabbit
Isotype	IgG
Purification	Protein A Chromatography
Storage buffer	Purified rabbit IgG in PBS with 30% glycerol and 0.035% sodium azide. Sodium azide is highly toxic.
Storage Conditions	Some products may be shipped at room temperature. This will not affect their stability or performance. Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20°C for up to 2 years. Keep all reagents on ice when not in storage.

Note: For in vitro research use only, not for diagnostic or therapeutic use, This product is not a medical device.
注意:在体外研究使用, 不用于诊断或治疗用途, 本产品不是医疗装置!





3-Methylcytosine (3-mC, 3-methylcytidine) antibody (pAb) tested by DNA dot blot BSA conjugated nucleosides (starting at 10ng as indicated) were spotted onto PVDF membrane and blotted with 3-methylcytidine antibody at a dilution of 1:10,000. Lane 1: 3-methylcytidine. Lane 2: Cytidine. Lane 3: 5-methylcytidine. Lane 4: 5-hydroxymethylcytidine.



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