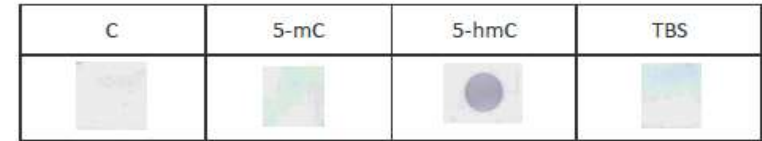
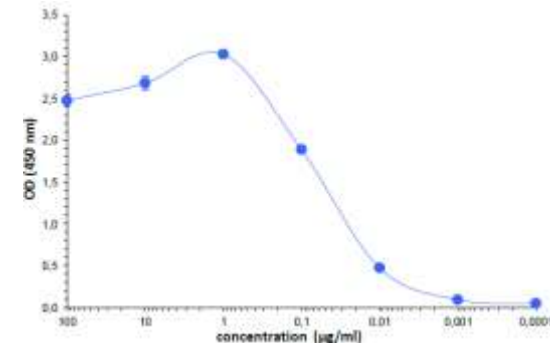


Anti-5-Hydroxymethylcytosine Antibody

CATALOG NO:	A1295-50
ALTERNATIVE NAMES:	5-hmc
AMOUNT:	50 µg
IMMUNOGEN:	Modified 5-hydroxymethylcytosine found in DNA vertebrates
HOST/ISOTYPE:	Mouse IgG1
CLONALITY:	Monoclonal
CLONE:	4D9
SPECIFICITY:	5-hmC
SPECIES REACTIVITY:	Human, mouse, rat
PURIFICATION:	Purified IgG fraction prepared by affinity chromatography on protein A
FORM:	Liquid
FORMULATION:	Phosphate Buffer 10mM - NaCl 0.15M - pH 7,4
STORAGE CONDITIONS:	For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles
DESCRIPTION:	5-hydroxymethylcytosine (5-hmC) is a modified base form of cytosine recently found in human/mouse brain and in embryonic stem cells. This DNA pyrimidine nitrogen base can be generated by oxidation of 5-methylcytosine, a reaction mediated by the ten-eleven translocation (TET) family of the 5-mC hydroxylases. The function of this base is still not elucidated but it is believed to play an important role in switching genes on and off.
APPLICATION:	ELISA: 1:1000 hMeDIP: 1-3 µg per IP IF: 1:500 Dot Blotting: 1:2,000
	Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.



Dot Blot analysis of the 5hmC monoclonal antibody (4D9) with DNA standard containing Cytosine (C), 5-methylcytosine (5-mC) or 5 hydroxymethylcytosine (5-hmC).



Determination of the 5-hmC monoclonal antibody titer: Direct ELISA performed with serial dilutions of the 5-hmC monoclonal antibody (4D9) against 5-hmC in antigen coated wells. Antigen used: BSA coupled to 5-hmC base. Estimated titer: 0.05 µg/ml.

RELATED PRODUCTS:

- Anti-5-Methylcytosine Antibody (Cat. No. A1294-50)
- Anti-S1P1 Antibody (Cat. No. A1296-50)
- Anti-GRA2 Antibody (Cat. No. A1298-50)
- Anti-GRA5 Antibody (Cat. No. A1299-50)

FOR RESEARCH USE ONLY! Not to be used on humans.