Agrisera
Part of Olink® Group

This product is **for research use only** (not for diagnostic or therapeutic use) **contact: support@agrisera.com**

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Product no AS16 3162

Anti-5-mC | 5-methylcystosine (monclonal antibody for MeDIP/IF)

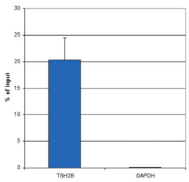
Product information

Immunogen	OVA-conjugated molecule: 5-methylcytosine (5-mC)
Host	Mouse
Clonality	Monoclonal
Subclass/isotype	IgG1
Purity	Purified by gel filtration.
Format	Liquid
Quantity	100 µg
Storage	Store at -80°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube.
Additional information	This antibody has been purified by gel filtration, It is supplied in PBS with 0,05 % sodium azide

Application information

Recommended dilution	05-1 µg (MeDIP), 1: 100 (IF)
Confirmed reactivity	Human
Predicted reactivity	Mouse, plants, broad species range
Not reactive in	No confirmed exceptions from predicted reactivity are currently known

application information



MeDIP was performed using 1 µg fragmented genomic DNA isolated from human blood, the monoclonal antibody against 5-mC and optimized PCR primer sets for qPCR of the indicated regions. 0.2 µg of antibody was used per IP experiment. The graph shows the recovery (expressed as a % of the input DNA, mean of 4 experiments) of the TSH2B gene, known to be methylated and of the promoter of the active GAPDH gene, used as a negative control.

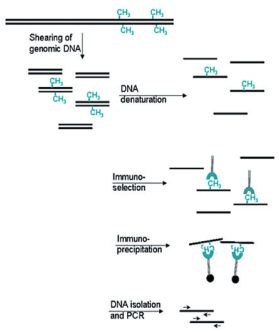


Chart flow showing steps of Methylated DNA-immunoprecipiation (MeDIP) method:

- Prepare genomic DNA from cultured cells
- Shear genomic DNA
- Denature the sheared genomic DNA
- Immunoprecipiate with the antibody against 5-meC
- Isolate DNA and perform PCR

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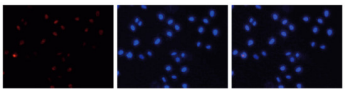

Immunofluorescence: HeLa cells were stained with the antibody against 5-mC and with DAPI. Cells were fixed with 2.5% formaldehyde for 30' and blocked with PBS/TX-100 containing 5% normal goat serum and 1% BSA. The cells were immunofluorescently labelled with the 5-mC antibody (left) diluted 1:100 in blocking solution followed by an anti-mouse antibody conjugated to Alexa594. The middle panel shows staining of the nuclei with DAPI. A merge of the two stainings is shown on the right.