

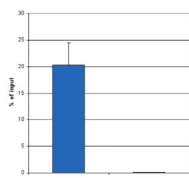
Product no **AS16 3162****Anti-5-mC | 5-methylcytosine (monoclonal antibody for MeDIP/IF)****Product information**

<b>Immunogen</b>	OVA-conjugated molecule: 5-methylcytosine (5-mC)
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Subclass/isotype</b>	IgG1
<b>Purity</b>	Purified by gel filtration.
<b>Format</b>	Liquid
<b>Quantity</b>	100 µg
<b>Storage</b>	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.

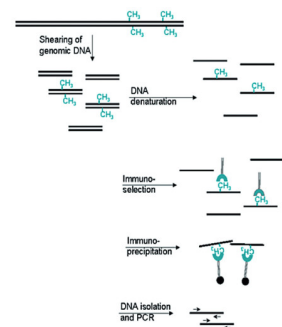
**Additional information** | This antibody has been purified by gel filtration, It is supplied in PBS with 0,05 % sodium azide

**Application information**

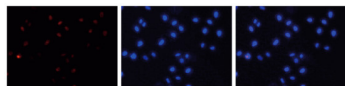
<b>Recommended dilution</b>	05-1 µg (MeDIP), 1: 100 (IF)
<b>Confirmed reactivity</b>	Human
<b>Predicted reactivity</b>	Mouse, plants, broad species range
<b>Not reactive in</b>	No confirmed exceptions from predicted reactivity are currently known

**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 Methyated DNA-immunoprecipitation (MeDIP) method:**

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



**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.