

5-Methylcytosine Polyclonal Antibody

Catalog NumberPA1-30675

Product data sheet

Details		Species Reactivity	
Size	250 µg	Species reactivity	Chemical
Host/Isotope	Sheep / IgG	Published species	Not Applicable
Class	Polyclonal	Tested Applications	
Type	Antibody	Dot blot (DB)	Dilution *Assay-dependent
Immunogen	5-methyl cytosine molecule conjugated to KLH.	Flow Cytometry (Flow)	Assay-dependent
Conjugate	Unconjugated	Immunohistochemistry (Frozen) (IHC (F))	10 µg/mL
Form	Liquid	Immunoprecipitation (IP)	25-100 µg/mL
Concentration	3 mg/mL	Western Blot (WB)	1:1,000
Purification	purified	Immunocytochemistry (ICC/IF)	5 µg/mL
Storage buffer	0.15M PBS	Published Applications	
Contains	no preservative	Immunohistochemistry (IHC)	See 1 publications below
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	

Product specific information

The use of 7mM NaOH in the IP is crucial. Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

Methylation of DNA cytosine bases plays important roles in the regulation of gene transcription. It has been estimated that 60 to 90% of the cytosines in CpG dinucleotides are methylated. An increase in methyl-CpG correlates with transcriptional silencing for the whole chromosome especially in developmentally regulated genes. Methylation is believed to lead to transcriptional silencing by multiple mechanisms including alteration of transcription factor binding to promoters and alteration in chromatin structure.

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Product Images For 5-Methylcytosine Polyclonal Antibody



5-Methylcytosine Antibody (PA1-30675) in ICC/IF
Immunocytochemistry analysis of rat neuron cells using (Product # PA1-30675) 5-Methylcytosine/5-mC antibody.
Dilution: 5 µg/mL.

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PubMed References For 5-Methylcytosine Polyclonal Antibody

1 Immunohistochemistry References

Species / Dilution	Summary
	PA1-30675 was used in Immunohistochemistry to propose DNA repair and methylation can be mediated through the HSP90/ERK pathway by PGK1 which enhances the chemoresistance to cisplatin in endometrial endometrioid adenocarcinoma.
Not Applicable / Not Cited	Molecular medicine (Cambridge, Mass.) (2019; 25:) "PGK1 facilities cisplatin chemoresistance by triggering HSP90/ERK pathway mediated DNA repair and methylation in endometrial endometrioid adenocarcinoma." Author(s):Zhou JW,Tang JJ,Sun W,Wang H PubMed Article URL: http://dx.doi.org/10.1186/s10020-019-0079-0

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