## For Research Use Only

## 5-methylcytosine Monoclonal antibody Catalog Number:68301-1-lg 7 Publications

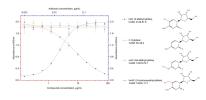


Basic Information	Catalog Number: 68301-1-lg	GenBank Accession Numb	ber:	Purification Method: Protein A purification
	Size:	GenelD (NCBI):		CloneNo.:
	150ul , Concentration: 500 ug/ml by	Full Name:		2C9G9
	Nanodrop;			Recommended Dilutions:
	Source: Mouse			IHC 1:2500-1:10000 Dot Blot 1:2500-1:10000
	Isotype:			Dot blot 1.2300-1.10000
	IgG2b			
Applications	Tested Applications:	Pc	Positive Controls: IHC : mouse testis tissue, rat brain tissue, rat testis tissue Dot Blot : HeLa cells,	
	IHC, Dot Blot, ELISA			
	Cited Applications: WB, IHC, IF			
	Species Specificity: 5mc, chemical compound, m5c			
	Cited Species: human, mouse			
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0			
	buffer pH 6.0			
Background Information	In eukaryotes, 5-methylcytosine in D formylcytosine (5fC), and 5-carboxyl suggested to contribute to epigeneti found in mRNA, rRNA and tRNA of rep modifications, m5C modifications of	lcytosine (5caC)) are the mo c gene regulation through a presentative organisms from f RNA affect the fate of the m ng RNA stability control, pro	ost promine a variety of c m all kinds c modified RN otein synthe	lifferent mechanisms. m5C has also be f species. As reversible epigenetic A molecules and play important roles i
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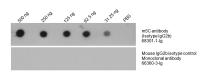
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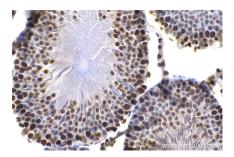
## Selected Validation Data



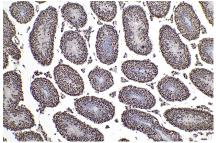
Indirect ELISA and competitive ELISA results show that this antibody is specific to m5C. Indirect ELISA (blue curve, refer to top X-right Y axis) was performed by coating BSA conjugated m5C at 0.4ng/well followed by blocking with 1% BSA. Serial diluted primary antibody was added to the plates and incubated at 37°C. HRP-goat anti-mouse was used for detection. Competitive ELISA was performed similarly except that different concentration of m5C or its



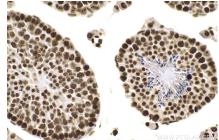
Total DNA was isolated from HeLa cell line and was dotted to NC membrane at different amount as indicated above the dots. The membrane was blocked with BSA and blotted with 5methylcytosine antibody 68301-1-Ig at 1:5000 followed by incubation of HRP-goat anti-mouse secondary antibody. Signal was developed by ECL substrate. A parallel dot blot was performed using Mouse IgG2b isotype control Monoclonal antibody 66360-3-Ig at the same dose.



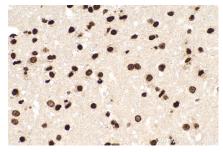
Immunohistochemical analysis of paraffinembedded rat testis tissue slide using 68301-1-lg (5-methylcytosine antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded mouse testis tissue slide using 68301-1-Ig (5-methylcytosine antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded mouse testis tissue slide using 68301-1-Ig (5-methylcytosine antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded rat brain tissue slide using 68301-1-lg (5-methylcytosine antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).