For Research Use Only

Na 5-Hydroxymethylcytidine Monoclonal antibody, PBS Only

Catalog Number:68579-1-PBS

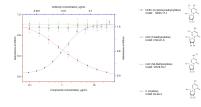


Basic Information	Catalog Number: 68579-1-PBS Size: 100ug , Concentration: 1 mg/ml by Nanodrop; Source: Mouse Isotype: IgG1	GenBank Accession Number: GeneID (NCBI): Full Name:	Purification Method: Protein G purification CloneNo.: 1E6C6
Applications	Tested Applications: ELISA, Dot Blot, Indirect ELISA Species Specificity: Human		
Background Information	to play a significant role in epigeneti possess the activity of catalyzing the carries more than 100 distinct types of of RNA. Ribonucleoside 5-methylcyti hydroxymethylcytidine (hm5C) and three domains of life and in polyA-er	ic regulation in mammals. Recent reae formation of 5-hydroxymethylcytidin of modifications, and these modification dine (m5C) is subject to oxidative proo 5-formylcytidine (f5C). Researchers ha	e (5-hmrC) in RNA. It is known that RNA ons modulate the structure and functions cessing in mammals, forming 5- ve identified hm5C in total RNA from all n cells. This suggests m5C oxidation is a
Storage	Storage: Store at -80°C. Storage Buffer: PBS Only		

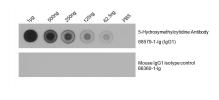
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll freeE: proteintech@ptglab.comin USA), or 1(312) 455-8498 (outside USA)W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Indirect ELISA and competitive ELISA results show that this antibody is specific to 5-Hydroxymethylcytidine (hm5C). Indirect ELISA was performed by coating BSA conjugated 5-Hydroxymethylcytidine (hm5C) at 10ng/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 5-



Total RNA 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 5-Hydroxymethylcytidine (hm5C) antibody 68579-1-1g 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 IgG1 isotype control antibody 66360-1-1g at the same dose. This data was