

For Research Use Only

Di-Methyl-Histone H3 (Lys36) Polyclonal antibody



Catalog Number: 29202-1-AP

Basic Information

Catalog Number: 29202-1-AP	GenBank Accession Number: BC066245	Purification Method: Antigen affinity purification
Size: 100ul , Concentration: 300 µg/ml by Nanodrop;	GeneID (NCBI): 8350	Recommended Dilutions: WB 1:1000-1:8000 ELISA 1:32000-1:128000
Source: Rabbit	Full Name: histone cluster 1, H3a	
Isotype: IgG	Observed MW: 15-18 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : C2C12 cells, HEK-293T cells, THP-1 cells, HeLa cells, HepG2 cells, HSC-T6 cells
Species Specificity: Human, Mouse, Rat	ELISA : peptide,

Background Information

Histones, including H1/H5 (linker histones), H2, H3, and H4 (core histones), are nucleic proteins which interact with DNA to form the nucleosomes and play important roles in gene regulation and DNA replication. Histone proteins are highly post-translationally modified while Histone H3 is the most extensively modified. The NSD family histone methyltransferases, including NSD1, NSD2 and NSD3, play crucial roles in chromatin regulation and are implicated in oncogenesis (PMID: 33361816). NSD enzymes exhibit an auto-inhibitory state that is relieved by nucleosome engagement, allowing for H3K36 di-methylation catalysis (PMID:22099308).

Storage

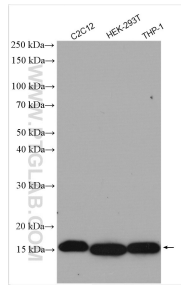
Storage:
Store at -20°C.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

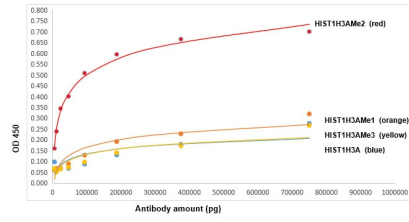
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 29202-1-AP (HIST1H3A antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Di-Methyl-Histone H3(Lys36) antibody (29202-1-AP) tested by ELISA. HIST1H3A(31-43aa), HIST1H3AMe1(31-43aa), HIST1H3AMe2(31-43aa), HIST1H3AMe3(31-43aa) were coated onto microtiter plates at 0.15 µg/well and then incubated with a dilution series of HIST1H3AMe2 antibody (29202-1-AP). Bound antibodies were detected with HRP conjugated anti-rabbit IgG followed by incubation with HRP substrate and then measuring the resulting absorbance at 450