

N6-methyladenosine / m6A Rabbit mAb

Catalog No.: A19841 **Recombinant** **23 Publications**

Basic Information

Observed MW

Calculated MW

Category

Primary antibody

Applications

ELISA, Nucleotide Array, DB, meRIP, IF/ICC

Cross-Reactivity

Species independent

CloneNo number

ARC5003-10

Background

Discovered in the 1970s, m6A is the most prevalent internal modification in polyadenylated mRNAs and long non-coding RNAs (lncRNAs) in higher eukaryotes. m6A is widely conserved among eukaryotic species that range from yeast, plants, flies to mammals, as well as among viral RNAs with a nuclear phase. The m6A-based modification is associated with a well-defined RNA motif, RRACH (R: A/G, H: A/C/U). As a representative of the epitranscriptome, m6A mRNA modifications participate in many vital activities in the cell, including stem cell self-renewal and differentiation, mRNA transcription, alternative splicing, nuclear export, translation, degradation, and microRNA processing. These processes determine the expression or inactivation of specific genes, which is vital for growth and development. (PMID: 30416848; PMID: 24662220; PMID: 30429466)

Recommended Dilutions

DB	1:500 - 1:2000
meRIP	1:50 - 1:200
IF/ICC	1:50 - 1:200

Immunogen Information

Gene ID	Swiss Prot
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Immunogen

Chemical compounds corresponding to N6-methyladenosine / m6A.

Synonyms

N6-methyladenosine; m6A; N6-methyladenosine / m6A

Contact

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Product Information

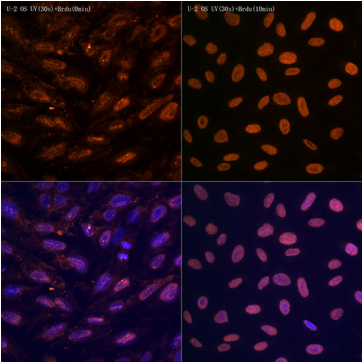
Source	Isotype	Purification
Rabbit	IgG	Protein A

Storage

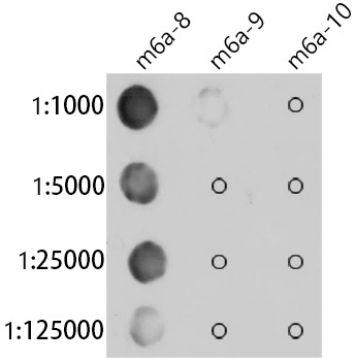
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% thimerosal, 0.05% BSA, 50% glycerol, pH7.3.

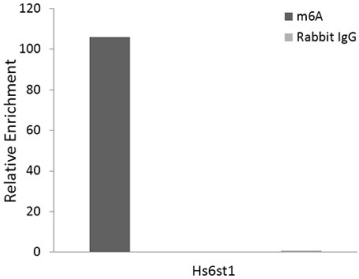
Validation Data



Immunofluorescence analysis of U-2 OS treated with UV(30s)+BrdU(0min) and U-2 OS treated with UV(30s)+BrdU(10min) cells using N6-methyladenosine / m6A Rabbit mAb (A19841) at dilution of 1:100 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



The m6A rabbit monoclonal antibody (A19841) are tested in Dot Blot against N6-methyladenosine (m6A) and unmodified adenosine. Oligomer 8 - ATAACTGG-m6A-CCGAATGG Oligomer 9 - ATAACTGGACCGAATGG Oligomer 10 - AAAAAAAAAAAAAA-biotin.



RNA Immunoprecipitation was performed on 100 µg mouse liver total RNA ,using 5 µg of the N6-methyladenosine / m6A Rabbit mAb. An equal amount of IgG was used as negative control. The immunoprecipitated RNA was verified by using HS6ST1 as PCR primer of qRT-PCR . The picture shows the relative enrichment multiple of HS6ST1 site.