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N6-methyladenosine / m6A Rabbit mAb

Catalog No.: A19841 Recombinant 36 Publications

Basic Information

Observed MW
Refer to figures

Calculated MW

Category
Primary antibody

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

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
IF/ICC	1:50 - 1:200
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.
meRIP	1:50 - 1:200

Immunogen Information

Gene ID **Swiss Prot**

Immunogen
Chemical compounds corresponding to N6-methyladenosine / m6A.

Synonyms
N6-methyladenosine; m6A; N6-methyladenosine / m6A

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Product Information

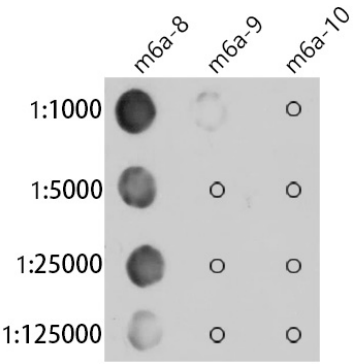
Source
Rabbit

Isotype
IgG

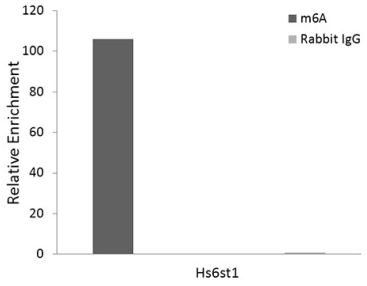
Purification
Protein A

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

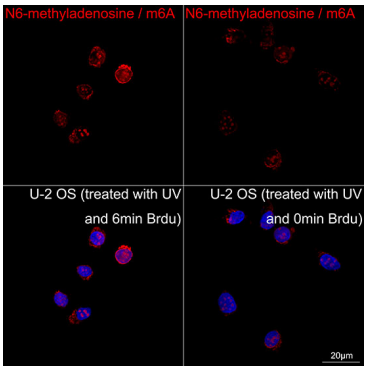
Validation Data



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 - AAAAAAAAAAAAAAA-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.



Confocal imaging of U-2 OS cells (treated with UV and 6min Brdu) and U-2 OS cells (treated with UV and 0min Brdu) using N6-methyladenosine / m6A Rabbit mAb (A19841, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.