

# N6-methyladenosine / m6A Rabbit pAb

Catalog No.: A17924 **12 Publications**

## Basic Information

### Observed MW

### Calculated MW

### Category

Primary antibody

### Applications

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

### Cross-Reactivity

Species independent

## 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

## Contact

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## Immunogen Information

### Gene ID

### Swiss Prot

### Immunogen

Chemical compounds corresponding to N6-methyladenosine / m6A.

### Synonyms

N6-methyladenosine; m6A; N6-methyladenosine / m6A

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

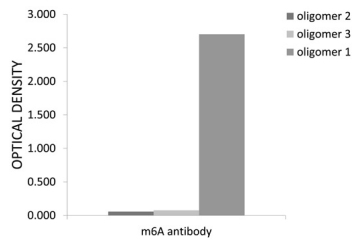
Affinity purification

### Storage

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

Buffer: PBS with 0.05% proclin300,50% glycerol,pH7.3.

## Validation Data

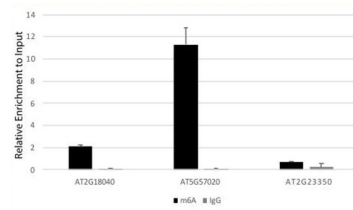


The m6A rabbit polyclonal antibody (4µg, A17924) are tested in Nucleotide Array against N6-methyladenosine (m6A) and unmodified adenosine (100pmol for each oligomer).

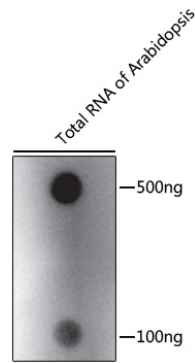
Oligomer 1 - N6-methyladenosine (m6A-CUGGUAACGAAUGGCU-G-Biotin)

Oligomer 2 - unmodified adenosine (ACUGGUAACGAAUGGCU-G-Biotin)

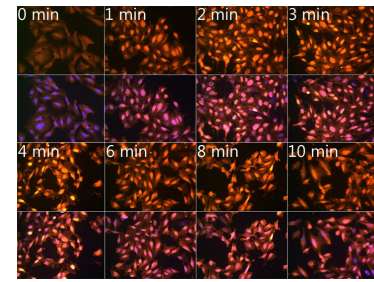
Oligomer 3 - unmodified adenosine (AAAAAAAAAAAAAAAA-Biotin)



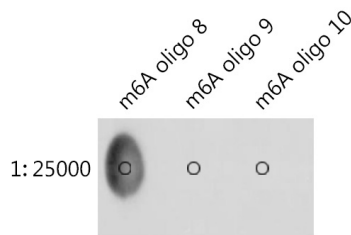
Immunoprecipitation analysis of 25µg total RNA extracts of Arabidopsis (25µg total RNA extracts of Arabidopsis was diluted to 200 µl IP buffer system) using 2ul m6A antibody (A17924).



The m6A rabbit polyclonal antibody (500ng/100ng, A17924) are tested in Dot Blot against total RNA of Arabidopsis. (This image is courtesy of an anonymous Abreview)



U2OS cells pre-treated with BrdU were subjected UVC irradiation incubated at 37 °C for the indicated time, and stained for m6A Polyclonal Antibody (A17924), DAPI, 4',6-diamidino-2-phenylindole. Global UVC irradiation exceed cytoplasmic level, peaking at 2 min after irradiation and diminishing over the following 8 min.



The m6A rabbit polyclonal antibody (A17924) are tested in Dot Blot against N6-methyladenosine (m6A) and unmodified adenosine.

Oligomer 8 - ATAAGTGG-m6A-CCGAATGG

Oligomer 9 - ATAAGTGGACCGAATGG

Oligomer 10 - AAAAAAAAAAAAAAAAAA-biotin.