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N6-methyladenosine / m6A Rabbit pAb

Catalog No.: A17924 **21 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

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

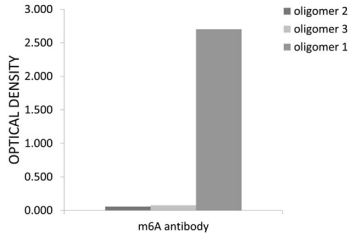
Source
Rabbit

Isotype
IgG

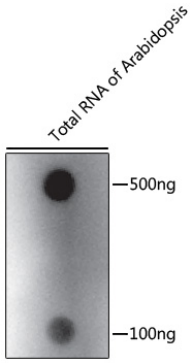
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,50% glycerol,pH7.3.

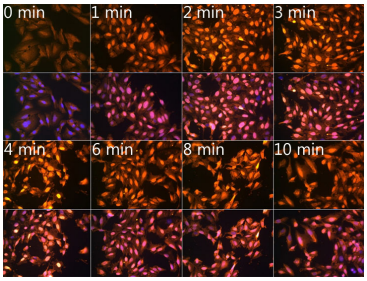
Validation Data



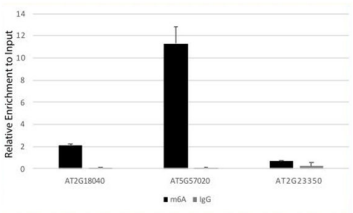
The m6A rabbit polyclonal antibody (4µg, A17924) are tested in Nucleotide Array against N6-methyladenosine (m6A) and unmodified adenosine (100pmol for each oligomer).
Oligomer 1 - N6-methyladenosine (m6A-CUGGUAACGAAUGGCU-G-Biotin)
Oligomer 2 - unmodified adenosine (ACUGGUAACGAAUGGCU-G-Biotin)
Oligomer 3 - unmodified adenosine (AAAAAAAAAAAAAAAA-Biotin)



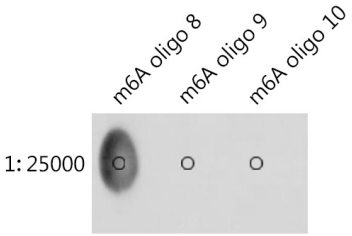
The m6A rabbit polyclonal antibody (500ng/100ng, A17924) are tested in Dot Blot against total RNA of Arabidopsis.
(This image is courtesy of an anonymous Abreview)



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 leavel,peaking at 2 min after irradiation and diminishing over the following 8 min.



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 (A17924) are tested in Dot Blot against N6-methyladenosine (m6A) and unmodified adenosine.
Oligomer 8 - ATAACTGG-m6A-CCGAATGG
Oligomer 9 - ATAACTGGACCGAATGG
Oligomer 10 - AAAAAAAAAAAAAAAA-biotin.