

Anti-N6-methyladenosine/m6A Rabbit pAb

Purified Rabbit Polyclonal Antibody

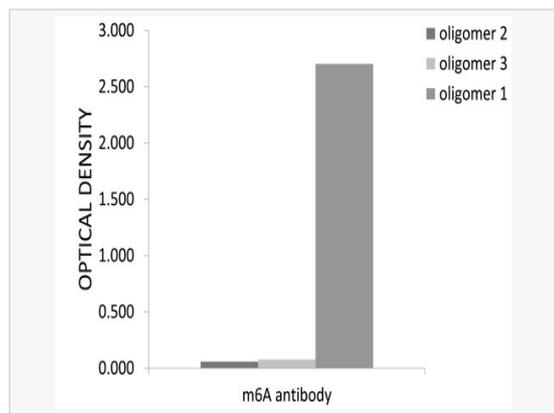
Catalog # P103598

Product Information

Application	DB, IF (Cell)/ICC, ELISA, meRIP, Nucleotide Array
Reactivity	Species independent
Dilution	DB 1:500~1:2,000; IF 1:50~1:200; meRIP 1:50~1:200
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Label	Unconjugated
Immunogen	Chemical compounds corresponding to N6-methyladenosine / m6A.
Format	Affinity purified polyclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-N6-methyladenosine/m6A Rabbit pAb is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	N6-methyladenosine; m6A; N6-methyladenosine / m6A.
Calculated MW	0
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)

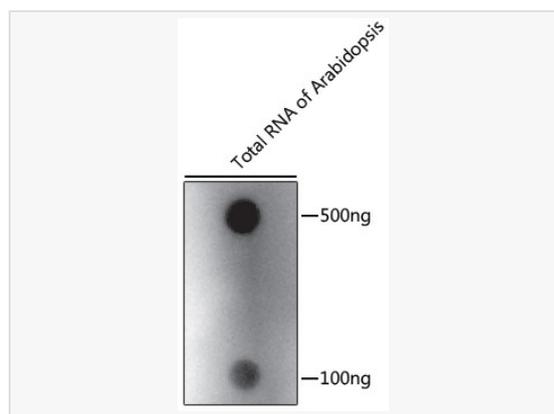


The m6A rabbit polyclonal antibody (4µg, P103598) are tested in Nucleotide Array against N6-methyladenosine (m6A) and unmodified adenosine (100pmol for each oligomer).

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

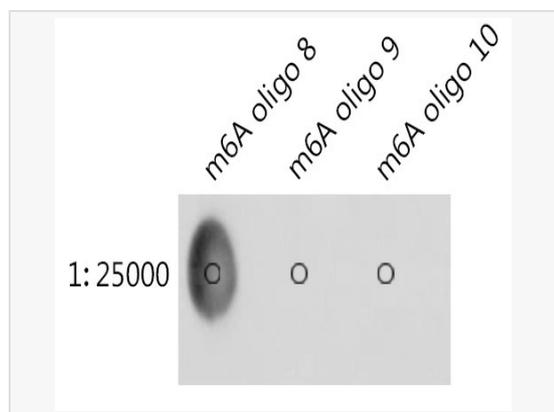
Oligomer 2 - unmodified adenosine (ACUGGUAACGAAUGGCU-G-Biotin)

Oligomer 3 - unmodified adenosine (AAAAAAAAAAAAAAAAA-Biotin)



The m6A rabbit polyclonal antibody (500ng/100ng, P103598) are tested in Dot Blot against total RNA of Arabidopsis.

(This image is courtesy of an anonymous Abreview)

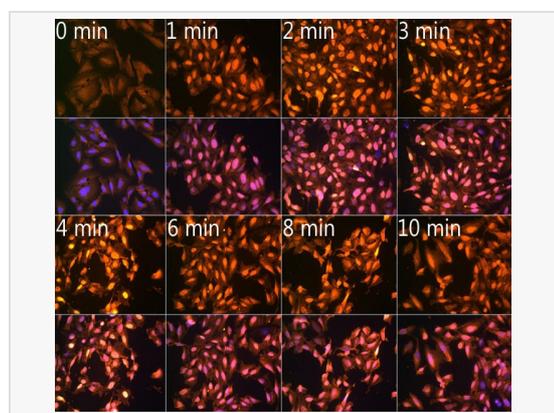


The m6A rabbit polyclonal antibody (P103598) are tested in Dot Blot against N6-methyladenosine (m6A) and unmodified adenosine.

Oligomer 8 - ATAACTGG-m6A-CCGAATGG

Oligomer 9 - ATAACTGGACCGAATGG

Oligomer 10 - AAAAAAAAAAAAAAAAAA-biotin.



U2OS cells pre-treated with BrdU were subjected UVC irradiation incubated at 37 °C for the indicated time, and stained for m6A Polyclonal Antibody (P103598). 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.



Immunoprecipitation analysis of 25 μ g total RNA extracts of Arabidopsis (25 μ g total RNA extracts of Arabidopsis was diluted to 200 μ l IP buffer system) using 2 μ l m6A antibody (P103598).