

Mouse anti-Human, Mouse N6-Methyladenosine (m6A) Antibody | anti-m6A antibody

AbFlex N6-Methyladenosine (m6A) antibody (rAb)

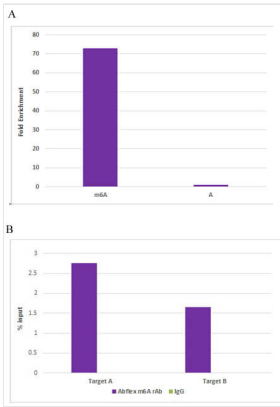
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA60279	Mouse	Human, Mouse	Immunoprecipitation, Dot Blot

PRODUCT SYNONYMS

N6-Methyladenosine (m6A); AbFlex N6-Methyladenosine (m6A) antibody (rAb); anti-m6A antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse
Isotype	IgG2a
Purity/Purification	Protein A Chromatography
Form/Format	Purified IgG in 140mM Hepes, pH7.5, 70mM NaCl, 32mM NaOAc, 0.035% sodium azide, 30% glycerol. Sodium azide is highly toxic.
Concentration	1ug/ul (varies by lot)
Applicable Applications for anti-m6A antibody	IP (Immunoprecipitation), DB (Dot Blot)
Antibody Type	Recombinant Antibody
Conjugation	Methylated
Immunogen	This antibody was raised against N6-methyladenosine conjugated to BSA.
Preparation and Storage	Some products may be shipped at room temperature. This will not affect their stability or performance. Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20 degree C for up to 2 years. Keep all reagents on ice when not in storage.1ug/ul



DB (Dot Blot)
AbFlex N6-Methyladenosine (m6A) antibody tested by Dot blot. 3.3 ng of single-stranded DNA oligonucleotides were spotted on to a positively charged nylon membrane and blotted with AbFlex N-6-methyladenosine recombinant antibody (1 ug/ml dilution). 1. unmethylated sequence 1 2. single 6-methyl-adenosine in middle of sequence 1 3. unmethylated sequence 2 4. unmethylated sequence 3 5. single 1-methyl-adenosine in middle of sequence 3

IP (Immunoprecipitation)
AbFlex N6-Methyladenosine (m6A) antibody tested by RNA immunoprecipitation. (A) In vitro RNA transcripts were generated containing either 0 or 10% of the m6A modified base or the A unmodified base and were spiked into 10 ug of total RNA. IP was performed using 10 ug Abflex N6-Methyladenosine antibody followed by Real Time-qPCR. (B) IP was performed using 5 ug Abflex N6-Methyladenosine antibody and 30 ug of total RNA (fragmented to 200 bp) from human hematopoietic stem cells followed by Real Time-qPCR on known methylated RNA. Data was provided courtesy of Dr. Alexandra Patmanidi in Prof. Dr. Achim Leutz's lab, Max-Delbrück-Centrum für Molekulare Medizin (MDC).

ADDITIONAL INFORMATION

Related Product Information for anti-m6A antibody	Short Description: AbFlex antibodies are recombinant antibodies (rAbs) that have been generated using defined DNA sequences to produce highly specific, reproducible antibodies. Each AbFlex antibody contains a 6xHis-tag, a Biotinylation Tag for enzymatic biotin conjugation using the biotin ligase, BirA, and a sortase recognition motif (LPXTG) to attach a variety of labels directly to the antibody including fluorophores, enzymatic substrates (HRP, AP), peptides, drugs as well as solid supports. Our AbFlex N6-Methyladenosine (m6A) antibody (rAb) was raised in a Mouse host. It has been validated for use in Dot blot and Immunoprecipitation; it has been shown to react with Human and Mouse samples, but the sequence is not species specific so it should react with a wide range of sample types. Background: AbFlex antibodies are recombinant antibodies (rAbs) that have been generated using defined DNA sequences to produce highly specific, reproducible antibodies. Each AbFlex antibody contains a 6xHis-tag, a Biotinylation Tag for enzymatic biotin conjugation using the biotin ligase, BirA, and a sortase recognition motif (LPXTG) to attach a variety of labels directly to the antibody including fluorophores, enzymatic substrates (HRP, AP), peptides, drugs as well as solid supports. AbFlex N6-Methyladenosine (m6A) antibody was expressed as full-length IgG with mouse immunoglobulin heavy and light chains (IgG2a isotype) in mammalian 293 cells. N6-Methyladenosine (m6A) is an RNA modification on the N-6 position of adenosine. This modification has been found to be abundant in the 3' UTR and stop codons of mammalian mRNA. m6A is associated with miRNA binding sites suggesting a potential role in epigenetic gene regulation. FTO and ALKBH are demethylases for 6-methyladenosine while a multiprotein complex that includes METTL3 functions as the methyltransferase. Recent findings revealed that m6A is also present on metazoan DNA, suggesting a genuine epigenetic role for this modification in the context of DNA as well.
Product Categories/Family for anti-m6A antibody	Primary Antibodies

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.