

Product datasheet

Anti-N6-methyladenosine (m6A) antibody [mAbcam 190886] - BSA and Azide free ab190886

Recombinant RabMAb

★★★★★ [2 Abreviews](#) [13 References](#) [2 Images](#)

Overview

Product name	Anti-N6-methyladenosine (m6A) antibody [mAbcam 190886] - BSA and Azide free
Description	Rabbit monoclonal [mAbcam 190886] to N6-methyladenosine (m6A) - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: Nucleotide Array
Species reactivity	Reacts with: Species independent
Immunogen	Chemical/ Small Molecule corresponding to N6-methyladenosine (m6A) conjugated to keyhole limpet haemocyanin.
Positive control	ab190886 was tested on a oligonucleotide array against RNA oligomers; N6-methyladenosine (m6A) and unmodified adenosine. 2Ome-RNA oligomers carry a methyl group at the 2'-OH residue of the ribose molecule, making them resistant to most ribonucleases.
General notes	<p>N6-methyladenosine (m6A) is a post-transcriptional modification of RNA. m6A modification has been identified in all classes of RNA (rRNA, tRNA and mRNA) and is catalysed by an evolutionary conserved multi-subunit enzyme, methyltransferase like 3 (METTL3). Cellular and viral RNA has been known to be methylated for decades. Recent studies have found that mRNA is predominately m6A modified at stop codons and long internal exons, which are conserved between mouse and human. Emerging evidence suggests m6A plays an important role in regulating gene expression, alternative splicing patterns, downstream signalling (p53) as well as apoptosis.</p> <p>The regulation of m6A modifications in mRNA has been linked to disease, where fat mass and obesity-associated (FTO) has been has been reported to be a obesity risk gene. FTO is a m6A demethylase and polymorphisms that result in increased FTO expression are associated with increased body mass and risk of obesity.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Constituent: PBS PBS prepared using DEPC-treated water. The use of RNase inhibitor is recommended.
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	mAbcam 190886
Isotype	IgG

Applications

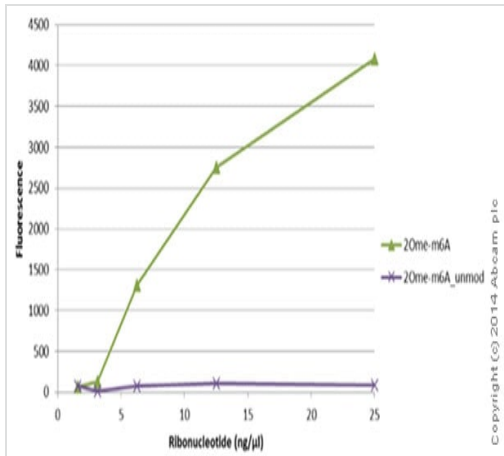
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab190886 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Nucleotide Array		Use a concentration of 2 µg/ml.

Target

Relevance N6-Methyladenosine (m6A) is an abundant modification found in mRNA, tRNA, snRNA, as well as long non-coding RNA, in all species. RNA adenosine methylation is catalyzed by a multicomponent complex composed of METTL3/MT-A70, METTL14, and WTAP in mammals. METTL3 & METTL14 are responsible for the methyltransferase activity of the complex, and WTAP mediates substrate recruitment.

Images



Nucleotide Array - Anti-N6-methyladenosine (m6A) antibody [mAbcam 190886] - BSA and Azide free (ab190886)

All batches of ab190886 are tested in Nucleotide Array against N6-methyladenosine and unmodified adenosine. Six dilutions of each oligomer are printed on to the Array in triplicate and results are averaged before being plotted on to a graph. Results show strong binding to N6-methyladenosine, indicating that this antibody specifically recognises adenosine methylated at position N6.

2Ome-m6A - N6-methyladenosine

2Ome-m6A_unmod - unmodified adenosine

Why choose a recombinant antibody?



Anti-N6-methyladenosine (m6A) antibody [mAbcam 190886] - BSA and Azide free (ab190886)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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