

Product datasheet

Anti-N6-methyladenosine (m6A) antibody ab151230

★★★★★ 3 Abreviews 59 References 1 Image

Overview

Product name	Anti-N6-methyladenosine (m6A) antibody
Description	Rabbit polyclonal to N6-methyladenosine (m6A)
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	ab151230 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 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>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at +4°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Constituent: PBS
	PBS prepared using DEPC-treated water. The use of RNase inhibitor is recommended.
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

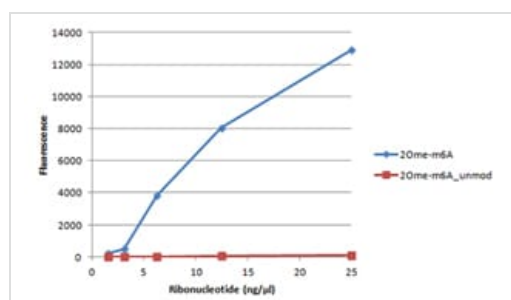
The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab151230 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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 (ab151230)

All batches of ab151230 are tested in Nucleotide Array against N6-methyladenosine (m6A) 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

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