

Product datasheet

Anti-8-methyladenosine (m8A) antibody [EPR-20836-125-1] ab211498

Recombinant RabMAb

3 Images

Overview

Product name	Anti-8-methyladenosine (m8A) antibody [EPR-20836-125-1]
Description	Rabbit monoclonal [EPR-20836-125-1] to 8-methyladenosine (m8A)
Host species	Rabbit
Specificity	Has been developed to discriminate between the modified base 8-methyladenosine (m8A) and the unmodified counterpart Adenosine (A).
Tested applications	Suitable for: ELISA, IP
Species reactivity	Reacts with: Synthetic fragment
Immunogen	Chemical/ Small Molecule. This information is proprietary to Abcam and/or its suppliers.
Positive control	IP: Modified oligonucleotide, 5' Biotin-mN.mN.mN.mN.mN.[m8A]*.mN.mN.mN.mN 3' * - phosphorothioate protection. ELISA: Biotinylated m8A-modified oligonucleotides.
General notes	<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. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EPR-20836-125-1
Isotype	IgG

Applications

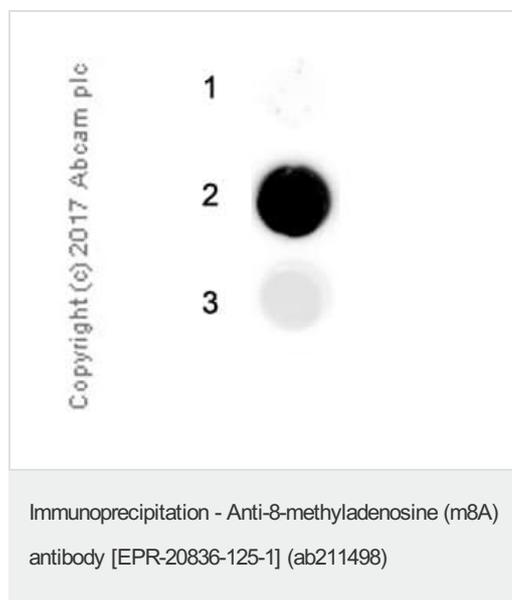
The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab211498 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		Use a concentration of 0.005 - 4 µg/ml.
IP		Use at an assay dependent concentration. Use 0.02 µg.

Target

Relevance 8-methyladenosine (m8A) RNA modification found in rRNA in bacteria.

Images



The IP was performed in a U-bottom non-adsorbing propylene 96-well plate.

ab211498 (0.2 µg) was coated into Dynabeads® sheep-anti-rabbit IgG (50 µl) for 1h at RT.

Unmodified/modified oligonucleotides (5 µM) were added to samples containing the antibody/bead complexes and incubated with agitation for 1 hour at RT.

After washing, Peroxidase-conjugated Streptavidin was incubated at 1/1000 dilution with agitation for 1 hour at RT.

ECL substrate was then added and the results read in a non-transparent 96-well plate with a digital detector and analyzed using ImageJ.

Lane 1: Buffer only.

Lane 2: Modified oligonucleotide (5 µM), 5' Biotin-mN.mN.mN.mN.mN.[m8A]*.mN.mN.mN.mN 3'

Lane 3: Unmodified oligonucleotide (5 µM), 5' Biotin-mN.mN.mN.mN.mN.[A]*.mN.mN.mN.mN 3'

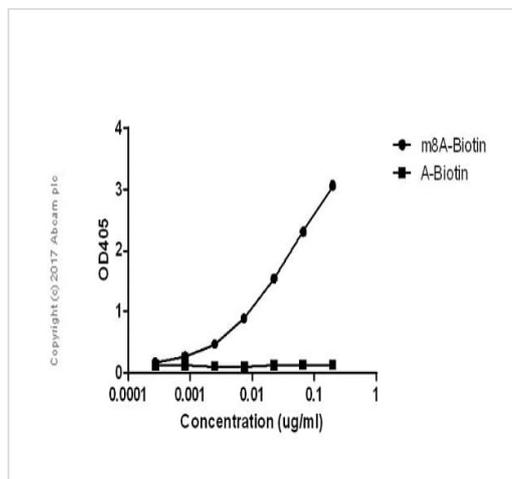
N - equimolar mixture of (A/U/G/C)

m - 2'O methyl protection

* - phosphorothioate protection

Blocking buffer and concentration: 5% NFDM/TBST

Dilution buffer and concentration: TBST/0.1% Triton X-100/1 mM EDTA



ELISA - Anti-8-methyladenosine (m8A) antibody [EPR-20836-125-1] (ab211498)

Biotinylated m8A (modified) and A (unmodified) oligonucleotides with the below sequence were coated onto wells of a 96 well plate.

Modified oligonucleotide (5 µM), 5' Biotin-mN.mN.mN.mN.mN.

[m8A]*.mN.mN.mN.mN.mN 3'

Unmodified oligonucleotide (5 µM), 5' Biotin-mN.mN.mN.mN.mN.

[A]*.mN.mN.mN.mN.mN 3'

N - equimolar mixture of (A/U/G/C)

m - 2'O methyl protection

* - phosphorothioate protection

ELISA was performed on 1.0 µg/ml of antigen using ab211498 at a concentration range of 0.005-4.000 µg/ml, followed by Goat Anti-Rabbit IgG, (H+L), alkaline phosphatase conjugated secondary antibody at 1/2500 dilution.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

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