

Product datasheet

Anti-1-methylguanosine (m1G) antibody [EPR19833-150] ab208199

Recombinant RabMAb

5 Images

Overview

Product name	Anti-1-methylguanosine (m1G) antibody [EPR19833-150]
Description	Rabbit monoclonal [EPR19833-150] to 1-methylguanosine (m1G)
Host species	Rabbit
Tested applications	Suitable for: FRET, Dot blot, ELISA, IP
Species reactivity	Reacts with: Species independent
Immunogen	Chemical/ Small Molecule within 1-methylguanosine (m1G). The exact sequence is proprietary.
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	Preservative: 0.01% Sodium azide Constituents: 59.94% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR19833-150
Isotype	IgG

Applications

The Abpromise guarantee

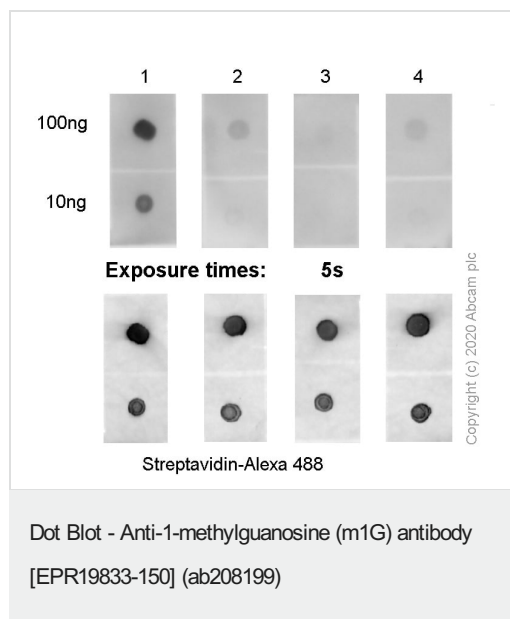
Our **Abpromise guarantee** covers the use of ab208199 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
FRET		Use a concentration of 0.001 - 4 µg/ml.
Dot blot		1/500.
ELISA		Use a concentration of 0.005 - 4 µg/ml.
IP		Use at an assay dependent concentration.

Target

Images



Dot blot analysis of 1-methylguanosine (m1G) using ab208199 at 1/500 dilution, followed by Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) at 1/20,000 dilution (Upper) or a Streptavidin-Alexa[®]488 conjugate (Lower).

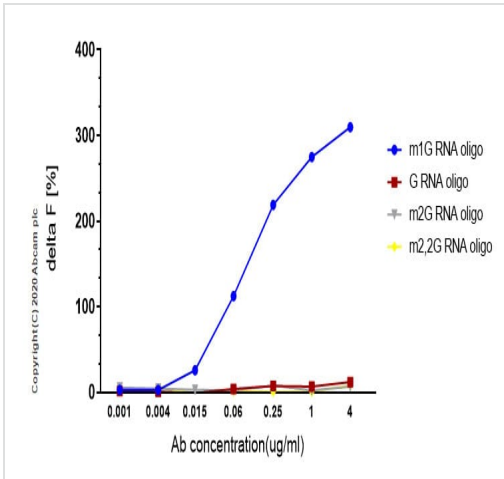
Lane 1: Biotin-m1G RNA oligo

Lane 2: Biotin-G RNA oligo

Lane 3: Biotin-m2G RNA oligo

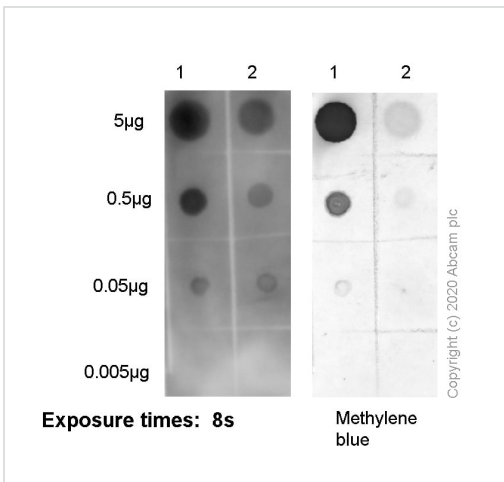
Lane 4: Biotin-m22G RNA oligo

Exposure time 5 seconds



FRET - Anti-1-methylguanosine (m1G) antibody
[EPR19833-150] (ab208199)

A FRET-based assay was performed using 25 nm of each biotinylated oligo using ab208199 at a concentration range of 0.001–4.000 µg/ml.



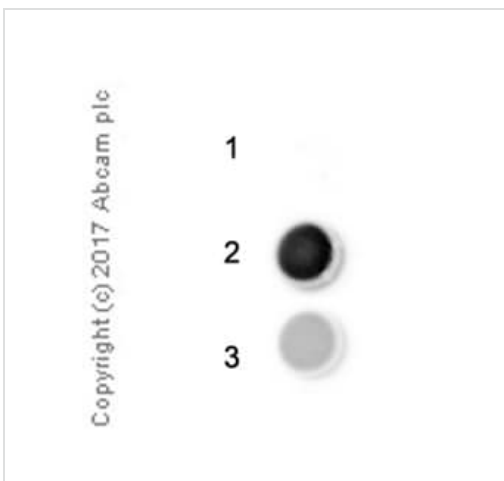
Dot Blot - Anti-1-methylguanosine (m1G) antibody
[EPR19833-150] (ab208199)

Dot blot analysis of 1-methylguanosine (m1G) using ab208199 at 1/500 dilution, followed by Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) at 1/20,000 dilution (Left) or Methylene Blue (Right).

Lane 1: HeLa total RNA

Lane 2: Yeast tRNA

Exposure time: 8 seconds



Immunoprecipitation - Anti-1-methylguanosine (m1G) antibody [EPR19833-150] (ab208199)

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

ab208199 (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 μ M), 5' Biotin-mN.mN.mN.mN.mN.[m1G]*.mN.mN.mN.mN.mN 3'

Lane 3: Unmodified oligonucleotide (5 μ M), 5' Biotin-mN.mN.mN.mN.mN.[G]*.mN.mN.mN.mN.mN 3'

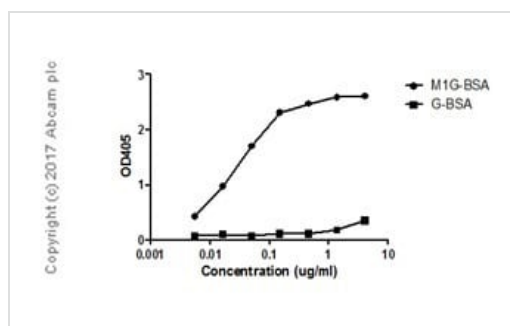
N - equimolar mixture of (A/U/G/C)

m - 2'O methyl protection

* - phosphorothioate protection

Blocking buffer and concentration: 5% NFDN/TBST

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



ELISA - Anti-1-methylguanosine (m1G) antibody [EPR19833-150] (ab208199)

BSA-conjugated m1G (modified) and G (unmodified) nucleosides were coated onto wells of a 96 well plate. ELISA was performed on 1.0 μ g/ml of antigen using ab208199 at a concentration range of 0.005-4.000 μ g/ml, followed by Goat Anti-Rabbit IgG, (H+L), alkaline phosphatase conjugated secondary antibody at 1/2500 dilution.

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