

For Research Use Only

# 1-Methyladenosine Monoclonal antibody

Catalog Number: 68636-1-Ig



## Basic Information

Catalog Number:

68636-1-Ig

Size:

1000 ug/ml

Source:

Mouse

Isotype:

IgG2a

GenBank Accession Number:

GeneID (NCBI):

Full Name:

Purification Method:

Protein G purification

CloneNo.:

2F2H8

Recommended Dilutions:

Dot Blot 1:1000-1:4000

## Applications

Tested Applications:

Dot Blot, ELISA

Species Specificity:

chemical compound

Positive Controls:

Dot Blot : RNA,

## Background Information

1-Methyladenosine, also known as m1A, belongs to the class of organic compounds known as purine nucleosides. M1A is important for the tRNA 3-dimensional structure, and it is also important for structure stabilization of tRNA due to its positive electrostatic charge and assists in correct folding of tRNA. Recently evidence suggests that m1A in tRNA is under reversible regulation that is installed by a tRNA m1A methyltransferase (MTase) and is erased by AlkB Homolog 1 (ALKBH1) and AlkB Homolog 3 (ALKBH3).

Protocol for Dot Blot:

<https://www.ptglab.com/protocol/68636-1-IgDotBlot.pdf>

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

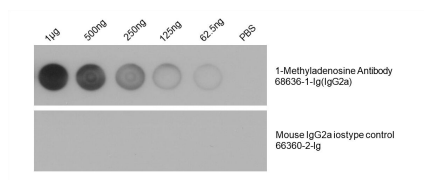
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## Selected Validation Data



Total RNA was isolated from HeLa cell line and was dotted to NC membrane at different amount as indicated above the dots. The membrane was blocked with 1% BSA and blotted with m1A (1-Methyladenosine) antibody 68636-1-Ig at 1:2000 followed by incubation of HRP-goat anti-mouse secondary antibody. Signal was developed by ECL substrate. A parallel dot blot was performed using Mouse IgG2a isotype control Monoclonal antibody 66360-2-Ig at the same dose.