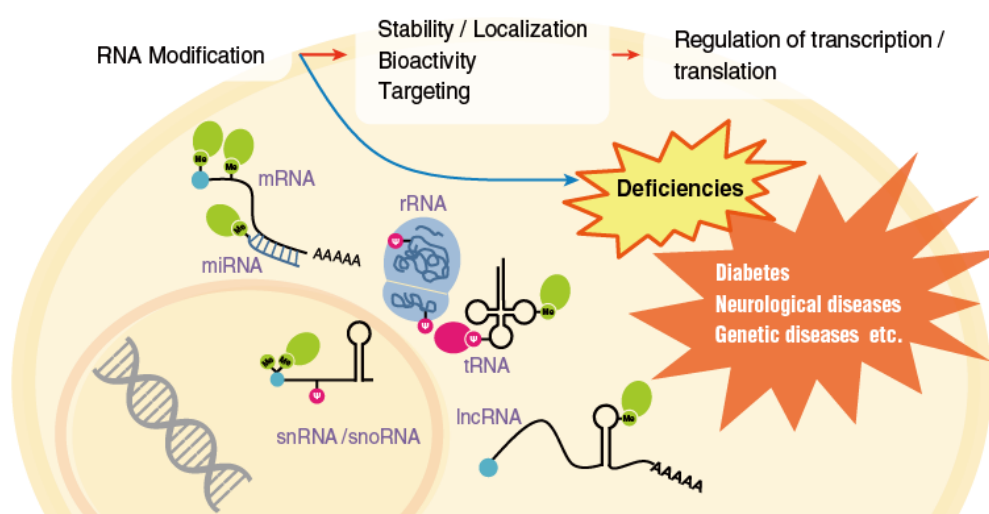


Antibodies against Modified Nucleosides - Useful for RNA Modification Research -



RNA Modifications

It is known that some bases and riboses of RNA undergo chemical modifications. RNA modifications are involved in the regulation of transcription and translation.¹⁾ Deficiencies or aberrations in RNA modifications have been implicated in the etiology of various diseases.^{2, 3)}



It has been revealed that RNA undergoes various modifications within living organisms, and over 150 types of modifications have been reported to date.⁴⁾ MBL offers a lineup of antibodies against modified RNA, particularly focusing on methylation.



MBL antibody lineup

RNA Modification	short name	Code No.	Isotype	clone
1-methyladenosine	m ¹ A	D345-3	Mouse IgG2bk	AMA-2
7-methylguanosine-Cap	m ⁷ G-Cap	RN016M	Mouse IgG2ak	150-15
7-methylguanosine	m ⁷ G	RN017M	Mouse IgG2ak	4141-13
2,2,7-trimethylguanosine	m ₃ G	RN019M	Mouse IgG2ak	235-1
5-methylcytidine	m ⁵ C	D346-3	Mouse IgG2aλ	FMC-9
Pseudouridine	Ψ	D347-3	Mouse IgG1 κ	APU-6
Inosine	I	PM098	Rabbit Ig (aff.)	Polyclonal

Explore Antibodies against Modified Nucleosides and related antibodies

Related Product

- [CircuLex m¹A \(N1-methyladenosine\) Competitive ELISA Kit](#)

This Kit is used for the quantitative measurement of m¹A-adducts in urine, cell lysate and other biological samples.

- Samples-confirmed by MBL

Urine samples, Cell lysates

- Samples-expected

Plasma samples (Please refer to the product data sheet for more details.)

The m¹A affects structural stability of tRNA and its binding to polysome in translation. Urinary excretion of modified nucleosides including m¹A is known to be increased in the patients with various cancers and AIDS.^{5, 6)} Moreover, elevated serum levels of m¹A are also detected under stress conditions.⁷⁾

References

- 1) Ohira, T., *et al.*, *Mol Cell*. (2024) [PMID: 38181765]
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- 3) Suzuki, T., *et al.*, *Wiley Interdiscip Rev RNA*. (2011) [PMID: 21957023]
- 4) Boccaletto, P., *et al.*, *Nucleic Acids Res.* (2022) [PMID: 34893873]
- 5) Seidel, A., *et al.*, *Environ Toxicol.* (2015) [PMID: 24615900]
- 6) Opitz, P., *et al.*, *Anticancer Res.* (2018) [PMID: 30396926]
- 7) Mishima, E., *et al.*, *J Am Soc Nephrol.* (2014) [PMID: 24833129]

Contact us!

Stay tuned for more updates and product information in our upcoming newsletters!

Thank you for choosing MBL for your biological research needs.

For research use only. Not for use in diagnostic or therapeutic procedures. The information is as of July 2025.
Please contact us for the latest information. Please read the data sheets carefully before use.

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