6593

Rabbit mAb



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: R Dot Blot	Reactivity: All	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG
Product Usage Information		This antibody has been sh assay-dependent dilution.	own by an independent laboratory to work in RNA-IP-seq. Please use at an
Storage			n HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than e at –20°C. Do not aliquot the antibody.
Specificity/Sensit	tivity	(m6A). This antibody has b	A) (D9D9W) Rabbit mAb recognizes endogenous levels of N6-methyladenosine been validated using ELISA and dot blot assays and shows high specificity for not cross-react with unmodified adenosine, N6-dimethyladenosine, N1- methyladenosine.
Source / Purifica	tion	Monoclonal antibody is pr	oduced by immunizing animals with N6-methyladenosine.
Background		the presence of m6A in RN epitranscriptomic landsca and NG-RNA-seq, research that is enriched in 3' UTRs heterodimer of methyltrar (METTL14), and the additio (WTAP) (5). METTL3 is the o subunit that binds to RNA stop codons, and WTAP ta Less is known about reade FTO was the first discoveror may prefer the closely rela demethylase enzyme, con Readers of the m6A mark stability and translation ef regulate a variety of cellul cell fate determination, ne	A) is a post-transcriptional modification found in various RNA subtypes. While NA was described decades ago, the lack of tools has made interrogating the pe challenging (1,2). With the emergence of new technologies such as miCLIP ners have been able to show that m6A is a biologically relevant mark in mRNA and stop codons (3,4). The m6A writer complex consists of a core nsferase-like protein 3 (METTL3) and methytransferase-like protein 14 onal regulatory proteins Virlizer/VIRMA and Wilms tumor 1-associated protein catalytic methyltransferase subunit and METTL14 is the target recognition (6). The Virilzer/VIRMA protein directs m6A methylation to the 3' UTRs and rgets the complex to nuclear speckles, which are sites of RNA processing (7). ers and erasers of m6A, and while the fat mass and obesity-associated protein ed m6A demethylase, subsequent studies demonstrated that this enzyme ated m6Am mark <i>in vivo</i> (8,9). ALKBH5 was later shown to be a bona fide m6A tributing to the idea that the m6A modification is dynamically regulated (10). include the YTH protein family, which can bind to m6A and influence mRNA fficiency (3,11-13). The m6A mark and machinery have been shown to ar functions, including RNA splicing, translational control, pluripotency and euronal function, and disease (1, 14-17). The m6A writer complex has been ropes including AML and endometrial cancers (18,19). Additionally, m6A has nce to chemotherapy (20).
Background Refe	erences	2. Desrosiers, R. et al. (197 3. Dominissini, D. et al. (20 4. Meyer, K.D. et al. (2012) 5. Liu, J. et al. (2014) <i>Nat C</i> 6. Wang, X. et al. (2014) <i>Na</i> 7. Ping, X.L. et al. (2014) <i>Na</i> 8. Jia, G. et al. (2017) <i>Na</i> 10. Zheng, G. et al. (2017) <i>Na</i> 10. Zheng, G. et al. (2013) 11. Schwartz, S. et al. (2014) 12. Wang, X. et al. (2015) <i>C</i> 14. Batista, P.J. et al. (2014)	Ce ^I I 149, 1635-46. <i>ihem Biol</i> 10, 93-5. <i>ature</i> 534, 575-8. <i>ell Res</i> 24, 177-89. <i>ihem Biol</i> 7, 885-7. <i>ature</i> 541, 371-75. <i>Mol Cell</i> 49, 18-29. 3) <i>Cell</i> 155, 1409-21. <i>Vature</i> 505, 117-20. <i>Cell</i> 161, 1388-99.) <i>Cell Stem Cell</i> 15, 707-19. <i>omics Proteomics Bioinformatics</i> 15, 154-63. <i>Nature</i> 537, 369-73.) <i>PLoS Biol</i> 16, e2004880.) <i>Nature</i> 552, 126-31. <i>Cell Biol</i> 20, 1074-83.

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).		
Applications Key	R Dot Blot: RNA Dot Blot		
Cross-Reactivity Key	All: All Species Expected		
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