Product Datasheet

N6-methyladenosine (m6A) Antibody - BSA Free
NBP3-18690

Unit Size: 50 ug

Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.

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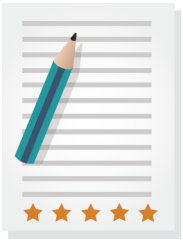


NBP3-18690

N6-methyladenosine (m6A) Antibody - BSA Free

Product Information	
Unit Size	50 ug
Concentration	1.2 mg/ml
Storage	Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide and 0.05% ProClin 300
Purity	Protein G purified
Buffer	PBS

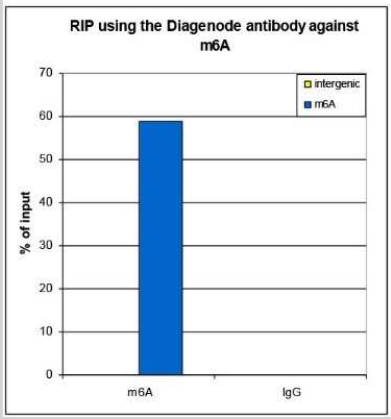
Product Description	
Description	Novus Biologicals Rabbit N6-methyladenosine (m6A) Antibody - BSA Free (NBP3-18690) is a polyclonal antibody validated for use in Dot Blot,RNA immunoprecipitation. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Species	Human, Mouse
Immunogen	Polyclonal antibody raised in rabbit against N6-methyladenosine (m6A) conjugated to LPH.

Product Application Details	
Applications	Dot Blot, RNA immunoprecipitation
Recommended Dilutions	Dot Blot 1:400, RNA immunoprecipitation 1-2 ug/IP
Application Notes	Please note that the optimal antibody amount per IP should be determined by the end-user. We recommend testing 1-10 ug per IP.

Images

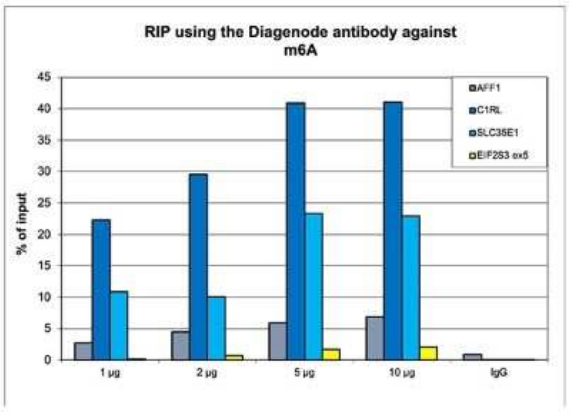
Dot Blot: N6-methyladenosine (m6A) Antibody [NBP3-18690] - Figure 4. Dot blot analysis using the antibody directed against N6-methyladenosine (m6A) To demonstrate the specificity of the antibody against N6-methyladenosine (m6A) , a Dot Blot analysis was performed using synthetic oligonucleotides containing different modified bases. 150 and 50 pmol of the respective oligos were spotted on the membrane. The antibody was diluted 1:400 in PBS-T containing 10 % skimmed milk and 1% BSA. Figure 1 shows a high specificity of the antibody for the oligonucleotide with the N6-methyladenosine modification.

RNA immunoprecipitation: N6-methyladenosine (m6A) Antibody [NBP3-18690] - Figure 1. RNA immunoprecipitation using the antibody directed against N6-methyladenosine (m6A) RNA Immunoprecipitation was performed on 40 ug HeLa total RNA spiked with 0.5 ug of an in vitro prepared transcript containing N6-methyladenosine (m6A) nucleotides, using 2 ug of the N6-methyladenosine (m6A) antibody . An equal amount of IgG was used as negative control. The immunoprecipitated RNA was subsequently analyzed by qRT-PCR with primers specific for the transcript and for an intergenic region, used as negative control. Figure 1 shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis).

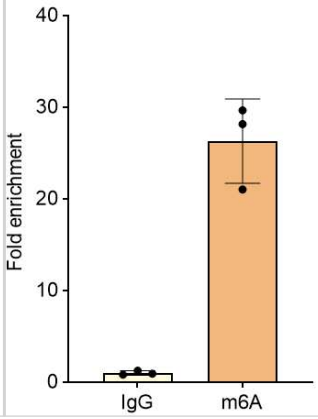


RNA immunoprecipitation: N6-methyladenosine (m6A) Antibody [NBP3-18690] - Figure 3. RIP-seq results obtained with the antibody directed against N6-methyladenosine (m6A) RIP was performed with 2 ug of the antibody against N6-methyladenosine (m6A) . The IP'd DNA was subsequently analysed on an Illumina HiSeq 4000. The 50 bp tags were aligned to the human genome using the BWA algorithm. Figure 3 shows the signal distribution along the complete sequence of the human X-chromosome (figure 3A) and in three genomic regions surrounding the C1RL, SLC35E1 and AFF1 positive control genes (figure 3B, C and D).

RNA immunoprecipitation: N6-methyladenosine (m6A) Antibody [NBP3-18690] - Figure 2. RNA immunoprecipitation using the antibody directed against N6-methyladenosine (m6A) RNA Immunoprecipitation was performed on 40 ug HeLa total RNA fragmented to a mean size of ~500 bases. A titration consisting of 1, 2, 5 and 10 ug of antibody per RIP experiment was analyzed. IgG (2 ug/IP) was used as a negative IP control. Quantitative RT-PCR was performed with primers for 3 UTR of the C1RL and SLC35E1 genes, and for exon 12 of the AFF1 gene, used as positive controls, and for exon 5 of the EIF2S3 gene, used as negative control. Figure 1 shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis).



RNA immunoprecipitation (RIP) was performed using either IgG or m6A Antibody (NBP3-18690) (2 ug/IP) with 50 ug MDA-MB-231 total RNA, followed by qPCR with primers for PRSS23 gene. Image from a verified customer review.



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