

Product datasheet for TA160026

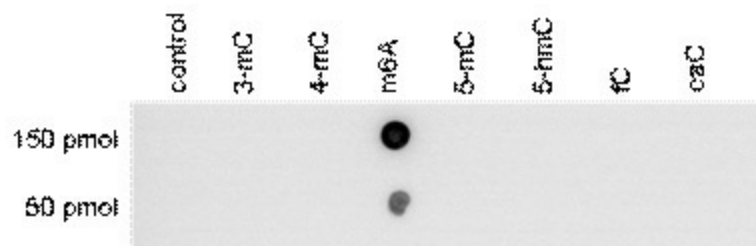
m6A Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	Dot
Recommended Dilution:	Dot blot (1:400)
Reactivity:	Human, Mouse, Broad
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-m6A antibody: N6-methyladenosine (m6A) conjugated to LPH.
Concentration:	lot specific
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Background:	N6-methyladenosine (m6A) is a modified base which is abundant in mRNA in most eukaryotes but also has been found in tRNA's, rRNA's, snRNA's and in long non-coding RNA's. Adenosine methylation is catalyzed by m6A methyltransferase, a large protein complex which has a preference for the consensus sequence GGACU. In human, the m6A modification has been identified in more than 7000 genes. It is preferably present around stop codons and in the 3' UTR but has not been observed in poly A tails. m6A is dynamically regulated both throughout development and in response to cellular stimuli. Levels are significantly higher in adulthood than during embryonic development. Although the presence of m6A in RNA was identified several years ago, it's physiological significance remains largely unknown. It has been proposed to affect mRNA processing and export from nucleus to cytoplasm. Recently, it was shown that mutations in the m6A demethylase gene FTO, which cause a decrease of m6A levels, are associated with an increased risk for obesity and type 2 diabetes.



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Product images:

Dot blot analysis using the antibody against m6A. To demonstrate the specificity of the antibody against m6A, a Dot Blot analysis was performed using synthetic oligonucleotides containing different modified bases. 150 and 50 pmol of the respective oligo's were spotted on the membrane. The antibody was diluted of 1:400 in TBS-T containing 10 % skimmed milk and 1% BSA. Image shows a high specificity of the antibody for the oligonucleotide with the N6-methyladenosine modification.