A2388

Leader in Biomolecular Solutions for Life Science

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2'-O-methyladenosine / Am Rabbit pAb

Catalog No.: A2388

Basic Information

Observed MW

Calculated MW

Category
Small Molecule-specific Antibody

Applications
ELISA,DB

Cross-Reactivity
Species independent

Background

Discovered in the 1970s, m6A is the most prevalent internal modification in polyadenylated mRNAs and long non-coding RNAs (lncRNAs) in higher eukaryotes. m6A is widely conserved among eukaryotic species that range from yeast, plants, flies to mammals, as well as among viral RNAs with a nuclear phase. The m6A-based modification is associated with a well-defined RNA motif, RRACH (R: A/G, H: A/C/U). As a representative of the epitranscriptome, m6A mRNA modifications participate in many vital activities in the cell, including stem cell self-renewal and differentiation, mRNA transcription, alternative splicing, nuclear export, translation, degradation, and microRNA processing. These processes determine the expression or inactivation of specific genes, which is vital for growth and development.(PMID: 30416848; PMID: 24662220; PMID: 30429466)

Recommended Dilutions

DB	1:500 - 1:2000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

Swiss Prot

Immunogen
Chemical compounds corresponding to 2'-O-methyladenosine / Am.

Synonyms
Am; 2'-O-methyladenosine; 2'-O-methyladenosine / Am

Contact

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Product Information

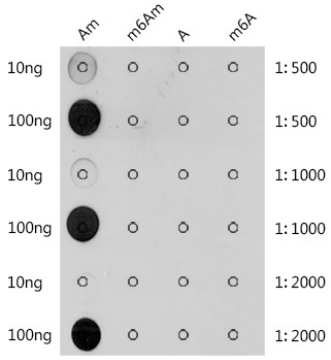
Source
Rabbit

Isotype
IgG

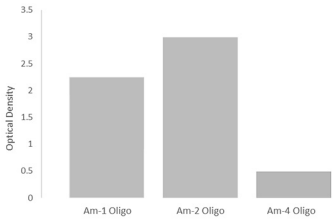
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.01% thimerosal,50% glycerol,pH7.3.

Validation Data



The 2'-O-methyladenosine / Am Rabbit pAb(A2388) are tested in Dot Blot against 2 ' -O-methyladenosine (Am),N6,2 ' -O-dimethyladenosine(m6Am),adenosine(A) and N6-methyladenosine(m6A).



The 2'-O-methyladenosine / Am Rabbit pAb(4μg,A2388)are tested in Nucleotide Array against Am-1 Oligo,Am-2 Oligo and Am-4 Oligo(100nmol for each oligomer).
Am-1 Oligo:biotin-CTACGGCTAA(Am)CCTTGG
Am-2 Oligo:biotin-CUACGGCUAA(Am)CCUUGG
Am-4 Oligo:biotin-CTACGGCTAAACCTTGG.