A20988

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Pseudouridine / 5-ribosyluracil Rabbit mAb

Catalog No.: A20988 Recombinant

Basic Information

Observed MW
Refer to figures

Calculated MW

Category
Small Molecule-specific Antibody

Applications
ELISA,DB

Cross-Reactivity
Species independent

CloneNo number
ARC50719

Background

Pseudouridine (Ψ) was among the first post-transcriptional modifications discovered and is overall one of the most abundant (1) . It is present in a wide range of cellular RNAs and is highly conserved across species. Ψ is derived from uridine (U) via base-specific isomerization catalyzed by Ψ synthases. The site-specific pseudouridylation goes through either snoRNA-dependent (requires H/ACA RNP) or -independent mechanism (requires pseudouridine synthase (PUS) family enzymes) (2) . It has an extra hydrogen-bond donor at its non-Watson-Crick edge. When incorporated into RNA, Ψ can alter RNA secondary structure by increasing base stacking, improving base pairing and rigidifying sugar-phosphate backbone5. The chemical and physical properties of RNA can be altered with the incorporation of Ψ, which could contribute to subsequent cellular functions.

Recommended Dilutions

DB	1:1000 - 1:10000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

Swiss Prot

CAS: 1445-07-4

Immunogen
Chemical compounds corresponding to Pseudouridine / 5-ribosyluracil.

Synonyms

Contact

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Product Information

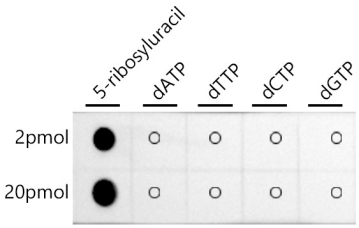
Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Validation Data



Dot-blot analysis of different sorts of chemical compounds using Pseudouridine / 5-ribosyluracil Rabbit mAb (A20988) at 1:1000 dilution.