

Pseudouridine / 5-ribosyluracil Rabbit mAb

Catalog No.: A20988 **Recombinant**

Basic Information

Observed MW

Refer to figures

Calculated MW

Category

Primary antibody

Applications

DB,IHC-P,ELISA

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 1:500 - 1:1000

IHC-P 1:500-1:1000

ELISA Recommended starting concentration is 1 μ g/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

CAS: 1445-07-4

Swiss Prot

Immunogen

Chemical compounds corresponding to Pseudouridine / 5-ribosyluracil / Y.

Synonyms

Contact

 | 400-999-6126 | cn.market@abclonal.com.cn | www.abclonal.com.cn

Product Information

Source

Rabbit

Isotype

IgG

Purification

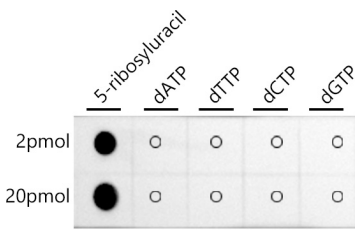
Affinity purification

Storage

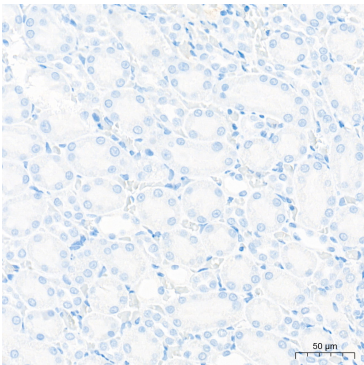
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

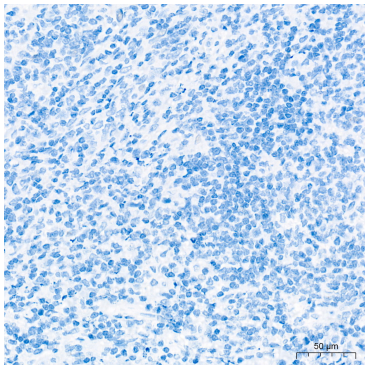
Validation Data



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



Immunohistochemistry analysis of paraffin-embedded Rat kidney tissue using Pseudouridine / 5-ribosyluracil Rabbit mAb (A20988) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using Pseudouridine / 5-ribosyluracil Rabbit mAb (A20988) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.