

# Pseudouridine / 5-ribosyluracil Rabbit mAb

Catalog No.: A20988 **Recombinant**

## Basic Information

### Observed MW

Refer to figures

### Calculated MW

### Category

Primary antibody

### Applications

ELISA,DB

### Cross-Reactivity

Species independent

### CloneNo number

ARC50719

## Background

Pseudouridine ( $\Psi$ ) 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.  $\Psi$  is derived from uridine (U) via base-specific isomerization catalyzed by  $\Psi$  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,  $\Psi$  can alter RNA secondary structure by increasing base stacking, improving base pairing and rigidifying sugar-phosphate backbone [5]. The chemical and physical properties of RNA can be altered with the incorporation of  $\Psi$ , which could contribute to subsequent cellular functions.

## Recommended Dilutions

DB 1:500 - 1:1000

## Immunogen Information

### Gene ID

CAS: 1445-07-4

### Swiss Prot

### Immunogen

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

### Synonyms

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

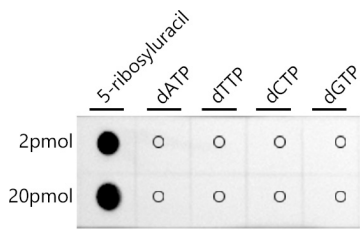
### Storage

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

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

## Validation Data

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