

## CAB20988

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### Product Information

<b>Product SKU:</b>	CAB20988	<b>Gene ID:</b>	CAS: 1445-07-4	<b>Size:</b>	20uL, 100uL
<b>Clone No:</b>	ARC50719	<b>Host Species:</b>	Rabbit	<b>Reactivity:</b>	Species independent

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### Additional Information

<b>Observed MW:</b>	Refer to figures	<b>Conjugate:</b>	-
<b>Calculated MW:</b>	-	<b>Isotype:</b>	IgG

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### Immunogen Information

<b>Background:</b>	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 <sup>5</sup> . The chemical and physical properties of RNA can be altered with the incorporation of $\Psi$ , which could contribute to subsequent cellular functions.
<b>Recommended Dilution:</b>	DB,1:500 - 1:1000
<b>Synonyms:</b>	-
<b>Purification Method:</b>	Affinity purification
<b>Immunogen:</b>	Chemical compounds corresponding to Pseudouridine / 5-ribosyluracil / Y.
<b>Storage:</b>	Store at -20°C. Avoid freeze / thaw cycles.Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.