

# RNGTT Polyclonal antibody

Catalog Number: 12430-1-AP

## Basic Information

<b>Catalog Number:</b> 12430-1-AP	<b>GenBank Accession Number:</b> BC019954	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 260 µg/ml by Nanodrop and 133 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 8732	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> RNA guanylyltransferase and 5'-phosphatase	<b>IHC 1:50-1:500</b> <b>IF 1:50-1:500</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 597 aa, 69 kDa	
<b>Immunogen Catalog Number:</b> AG3105	<b>Observed MW:</b> 69 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, IP, WB, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse, rat	<b>WB :</b> human kidney tissue,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IP :</b> mouse kidney tissue,
	<b>IHC :</b> mouse stomach tissue,
	<b>IF :</b> HepG2 cells,

## Background Information

RNGTT(mRNA-capping enzyme) is also named as HCAP1, HCE, CAP1A. In the N-terminal section it belongs to the non-receptor class of the protein-tyrosine phosphatase family and in the C-terminal section it belongs to the eukaryotic GTase family. It is a bifunctional 597-amino acid protein with RNA triphosphatase and RNA guanylyltransferase activities(PMID:9545288). It has 4 isoforms produced by alternative splicing.

## Storage

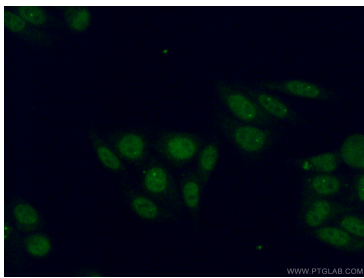
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

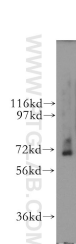
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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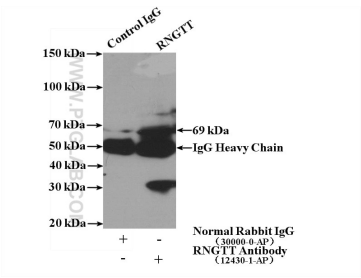
Selected Validation Data



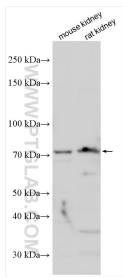
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 12430-1-AP (RNGTT antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



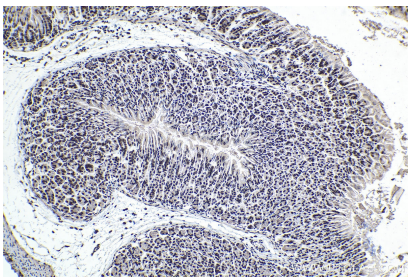
human kidney tissue were subjected to SDS PAGE followed by western blot with 12430-1-AP (RNGTT antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



IP Result of anti-RNGTT (IP:12430-1-AP, 4ug; Detection:12430-1-AP 1:500) with mouse kidney tissue lysate 4000ug.



Various lysates were subjected to SDS PAGE followed by western blot with 12430-1-AP (RNGTT antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse stomach tissue slide using 12430-1-AP (RNGTT antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).