

For Research Use Only

TRMT10C Polyclonal antibody

Catalog Number: 29087-1-AP **4 Publications**



Basic Information

Catalog Number: 29087-1-AP	GenBank Accession Number: NM_017819	Purification Method: Antigen affinity purification
Size: 900 ug/ml	GeneID (NCBI): 54931	Recommended Dilutions: WB 1:500-1:2000 IHC 1:2000-1:8000 IF/ICC 1:50-1:500
Source: Rabbit	UNIPROT ID: Q7L0Y3	
Isotype: IgG	Full Name: RNA (guanine-9-) methyltransferase domain containing 1	
Immunogen Catalog Number: AG30642	Calculated MW: 47 kDa	
	Observed MW: 40-45 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: HepG2 cells, PC-12 cells, mouse heart tissue, rat heart tissue

IHC: human colon cancer tissue,

IF/ICC: U2OS cells,

Background Information

tRNA methyltransferase 10 homolog C (TRMT10C, also known as MRPP1) is involved in mitochondrial RNA processing and modification (PMID: 21593607). It is essential for the 5'-ends processing of mitochondrial tRNAs and plays a critical role in mitochondrial respiration and translation (PMID: 18984158; 29040705). Mutations in TRMT10C may be a cause of mitochondrial disease and highlight the importance of RNA processing for correct mitochondrial function (PMID: 27132592).

Notable Publications

Author	Pubmed ID	Journal	Application
Yao-Lin Yang	39152369	BMC Cardiovasc Disord	WB
Meng Wang	39038923	Phytother Res	WB
Matthew A Walker	37965787	Circulation	WB

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

For technical support and original validation data for this product please contact:

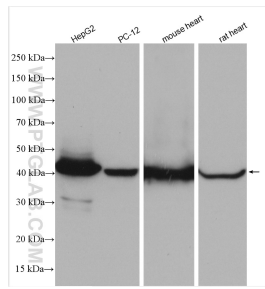
T: 4006900926

E: Proteintech-CN@ptglab.com

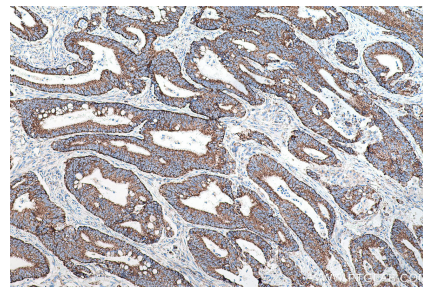
W: ptgcn.com

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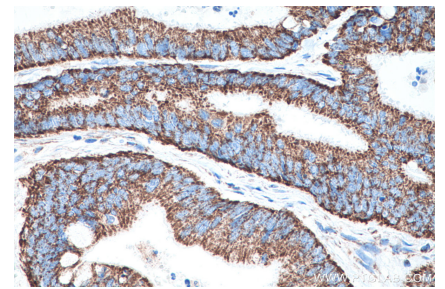
Selected Validation Data



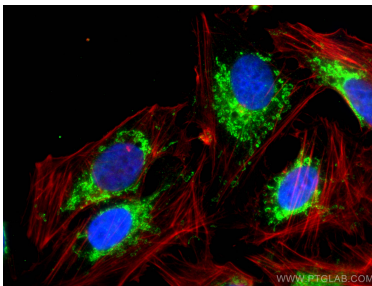
Various lysates were subjected to SDS PAGE followed by western blot with 29087-1-AP (TRMT10C antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 29087-1-AP (TRMT10C antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 29087-1-AP (TRMT10C antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using TRMT10C antibody (29087-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).