

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: 150ul, Concentration: 1200 ug/ml by Nanodrop;	GeneID (NCBI): 54931	Recommended Dilutions: WB 1:500-1:2000
Source: Rabbit	UNIPROT ID: Q7L0Y3	IHC 1:2000-1:8000
Isotype: IgG	Full Name: RNA (guanine-9-) methyltransferase domain containing 1	IF/ICC 1:50-1:500
Immunogen Catalog Number: AG30642	Calculated MW: 47 kDa	
	Observed MW: 40-45 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Cited Applications: WB	WB : HepG2 cells, PC-12 cells, mouse heart tissue, rat heart tissue
Species Specificity: human, mouse, rat	IHC : human colon cancer tissue,
Cited Species: human, mouse	IF/ICC : U2OS cells,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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

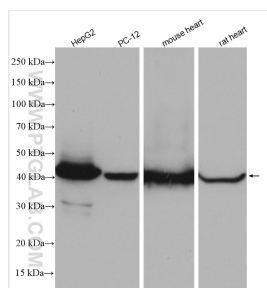
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

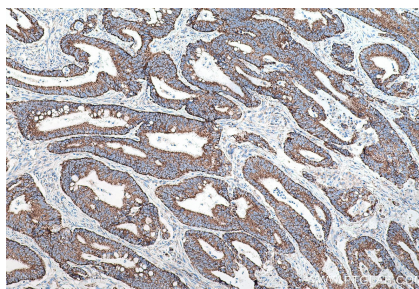
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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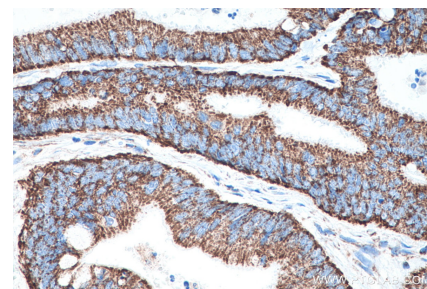
Selected Validation Data



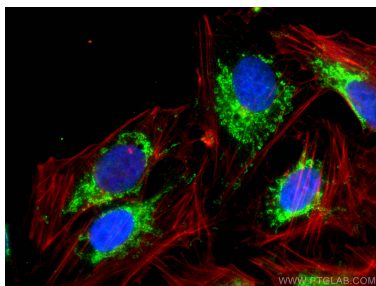
Various lysates were subjected to SDS PAGE followed by western blot with 29087-1-AP (TRMT10C antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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).