

For Research Use Only

GTPBP10 Polyclonal antibody

Catalog Number: 32944-1-AP



Basic Information

Catalog Number: 32944-1-AP	GenBank Accession Number: BC107714	Purification Method: Antigen affinity Purification
Concentration: 350 ug/ml	GeneID (NCBI): 85865	Recommended Dilutions: WB 1:500-1:2000
Source: Rabbit	UNIPROT ID: A4D1E9	
Isotype: IgG	Full Name: GTP-binding protein 10 (putative)	
Immunogen Catalog Number: AG37974	Calculated MW: 43, 34, 12 kDa	
	Observed MW: 42, 34, 20 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : HEK-293T cells, HeLa cells, RT-4 cells
Species Specificity: human, mouse	

Background Information

GTPBP10, a member of the conserved Obg family of P-loop small G proteins, is a mitochondrial protein. The absence of GTPBP10 leads to attenuated mtLSU and mtSSU levels and the virtual absence of the 55S monosome, which entirely prevents mitochondrial protein synthesis. GTPBP10 physically interacts with the 16S rRNA, but not with the 12S rRNA, and crosslinks with several mtLSU proteins. Additionally, GTPBP10 is indirectly required for efficient processing of the 12S-16S rRNA precursor transcript, which could explain the mtSSU accumulation defect (PMID: 30321378).

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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

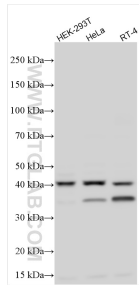
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 32944-1-AP (GTPBP10 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.