

For Research Use Only

PELO Polyclonal antibody

Catalog Number: 10582-1-AP

Featured Product

9 Publications



Basic Information

Catalog Number: 10582-1-AP	GenBank Accession Number: BC005889	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 450 µg/ml by Nanodrop and 300 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 53918	Recommended Dilutions: WB 1:1000-1:6000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 IF 1:20-1:200
Source: Rabbit	Full Name: pelota homolog (Drosophila)	
Isotype: IgG	Calculated MW: 43 kDa	
Immunogen Catalog Number: AG0873	Observed MW: 43-45 kDa	

Applications

Tested Applications: IF, IHC, IP, WB, ELISA	Positive Controls: WB : HEK-293 cells, mouse testis tissue, HeLa cells, SKOV-3 cells IP : HEK-293 cells, IHC : human liver tissue, IF : U2OS cells,
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	

Background Information

The Pelo gene was originally identified in a mutagenesis screen for spermatogenesis-specific genes of *Drosophila melanogaster*. The PELO is required for the meiotic division during the G2/M transition, and functions in recognizing stalled ribosomes and triggering endonucleolytic cleavage of the mRNA, a mechanism to release non-functional ribosomes and degrade damaged mRNAs [PMID:12556505]. It may participate in the machinery of protein synthesis or in the regulation of mRNA translation [PMID:9584085].

Notable Publications

Author	Pubmed ID	Journal	Application
Shuai Hou	31216022	Nucleic Acids Res	WB
I-Hui Wu	34107246	Cell Rep	
Mark Stoneley	35180429	Mol Cell	WB

Storage

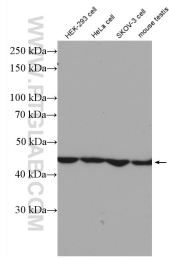
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

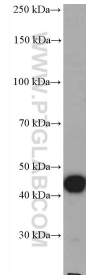
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

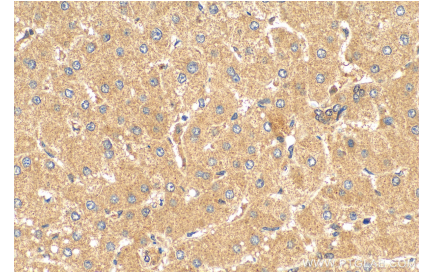
Selected Validation Data



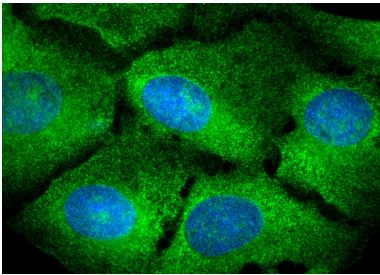
Various cells were subjected to SDS PAGE followed by western blot with 10582-1-AP (PELO antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



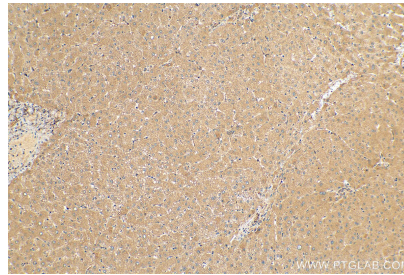
mouse testis tissue were subjected to SDS PAGE followed by western blot with 10582-1-AP (PELO antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



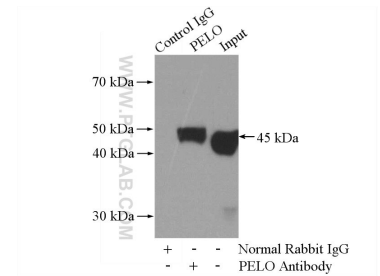
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 10582-1-AP (PELO antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IF result of 10582-1-AP (PELO antibody) in U2OS cell by Dr. Nancy Kedersha. (cytoplasm and nucleus; Green).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 10582-1-AP (PELO antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP Result of anti-PELO (IP:10582-1-AP, 4 μ g; Detection:10582-1-AP 1:500) with HEK-293 cells lysate 1200 μ g.