

For Research Use Only

# BOP1 Recombinant antibody

Catalog Number: 82742-3-RR

Featured Product



## Basic Information

Catalog Number:	82742-3-RR	GenBank Accession Number:	BC013787	Purification Method:	Protein A purification
Size:	100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI):	23246	CloneNo.:	3A4
Source:	Rabbit	UNIPROT ID:	Q14137	Recommended Dilutions:	WB 1:5000-1:50000
Isotype:	IgG	Full Name:	block of proliferation 1	IHC 1:500-1:2000	IF/ICC 1:500-1:2000
Immunogen Catalog Number:	AG26669	Calculated MW:	84 kDa		
		Observed MW:	117 kDa		

## Applications

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

Species Specificity:  
human, mouse, rat

**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 : NCI-H1299 cells, HeLa cells, DU 145 cells, PC-3 cells, U2OS cells

IHC : human ovarian cancer,

IF/ICC : HepG2 cells, HeLa cells

## Background Information

Block of Proliferation 1(BOP1) protein was first isolated from a mouse, and the truncation protein may led to cell cycle arrest. Bop1 plays a role in processing of the 28S and 5.8S rRNAs (ribosomal RNAs) to regulate ribosome biogenesis. And Bop1 also act as a component of Pes1/Bop1/WDR21 (PeBoW) complex for mature 60S ribosome, and consequently acts during cell division at G1 checkpoints (PMID:18670790; PMID:26940494). What's more, abnormal expression of BOP1 was associated with liver or colorectal cancers (PMID:16804918). The molecular weight of the protein we detected was slightly higher, about 117 kd, which is also seen in the article (PMID: 30100995).

## Storage

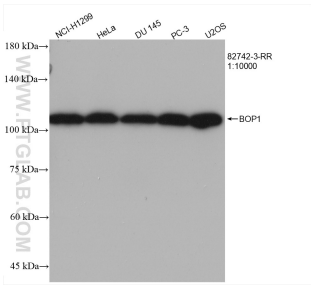
Storage:  
Store at -20°C. Stable for one year after shipment.  
Storage Buffer:  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

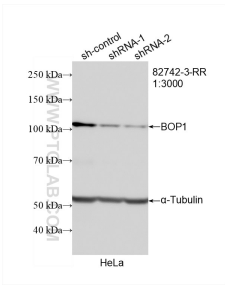
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

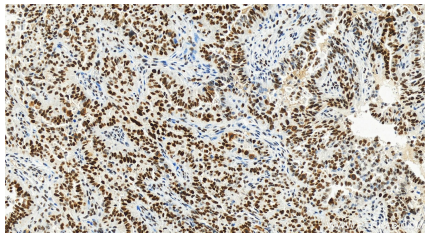
Selected Validation Data



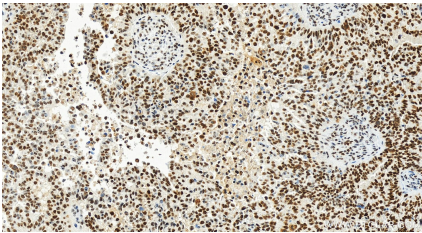
Various lysates were subjected to SDS PAGE followed by western blot with 82742-3-RR (BOP1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



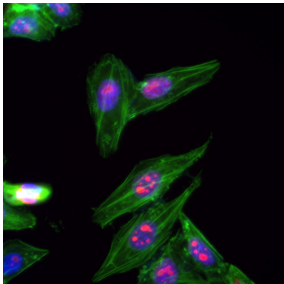
WB result of BOP1 antibody (82742-3-RR; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-BOP1 transfected HeLa cells.



Immunohistochemical analysis of paraffin-embedded human ovarian cancer slide using 82742-3-RR (BOP1 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human ovarian cancer slide using 82742-3-RR (BOP1 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using BOP1 antibody (82742-3-RR, Clone: 3A4 ) at dilution of 1:1000 and Multi-rAb CoraLite® Plus 594-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR004).