

For Research Use Only

BOP1 Recombinant antibody, PBS Only

Catalog Number: 82742-3-PBS

Featured Product



Basic Information

Catalog Number:

82742-3-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG26669

GenBank Accession Number:

BC013787

GeneID (NCBI):

23246

UNIPROT ID:

Q14137

Full Name:

block of proliferation 1

Calculated MW:

84 kDa

Observed MW:

117 kDa

Purification Method:

Protein A purification

CloneNo.:

3A4

Applications

Tested Applications:

WB, IHC, IF/ICC, Indirect ELISA

Species Specificity:

human, mouse, rat

Background Information

Block of Proliferation 1 (BOP1) protein was first isolated from a mouse, and the truncation protein may lead 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 acts 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 -80°C.

Storage Buffer:

PBS Only

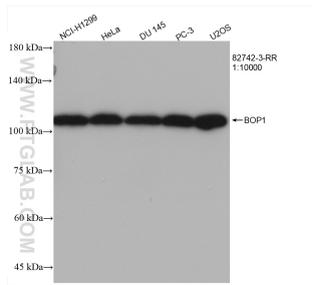
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

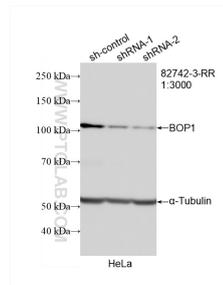
E: proteintech@ptglab.com
W: ptglab.com

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

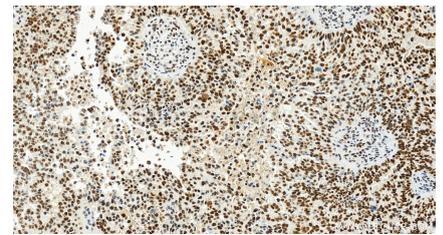
Selected Validation Data



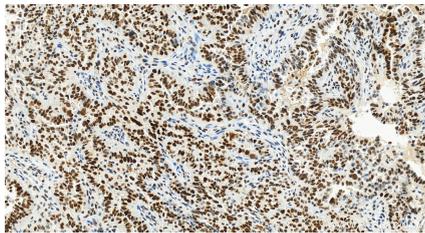
Various lysates were subjected to SDS PAGE followed by western blot with 82742-3-RR (BOP1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82742-3-PBS in a different storage buffer formulation.



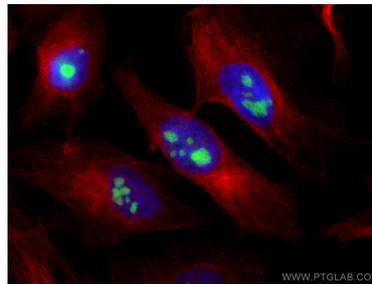
WB result of BOP1 antibody (82742-3-RR; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-BOP1 transfected HeLa cells. This data was developed using the same antibody clone with 82742-3-PBS in a different storage buffer formulation.



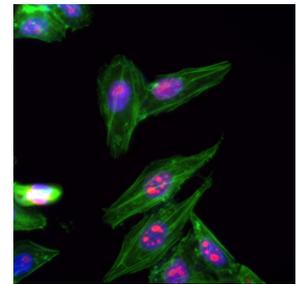
Immunohistochemical analysis of paraffin-embedded human ovarian cancer slide using 82742-3-RR (BOP1 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82742-3-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 82742-3-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using BOP1 antibody (82742-3-RR, Clone: 3A4) at dilution of 1:1000 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), Alpha Tubulin antibody (66031-1-Ig, Clone: 1E4C11, red). This data was developed using the same antibody clone with 82742-3-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 82742-3-PBS in a different storage buffer formulation.