

For Research Use Only

BOP1 Polyclonal antibody

Catalog Number: 28366-1-AP

Featured Product

4 Publications



Basic Information

Catalog Number:

28366-1-AP

Size:

150ul, Concentration: 300 ug/ml by Nanodrop and 200 ug/ml by Bradford method using BSA as the standard;

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:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IF

Species Specificity:

Human, Mouse

Cited Species:

human

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 : DU 145 cells, HeLa cells, NCI-H1299 cells

IHC : human colon cancer tissue, mouse testis tissue

IF/ICC : PC-3 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).

Notable Publications

Author	Pubmed ID	Journal	Application
Lanjuan Mi	34868955	Front Oncol	WB
Miao Bai	34512161	Int J Biol Sci	WB
Yu Gan	39475053	Adv Sci (Weinh)	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

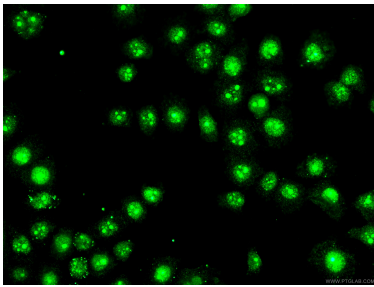
For technical support and original validation data for this product please contact:

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

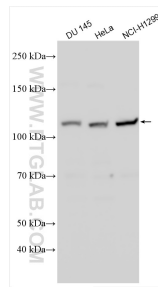
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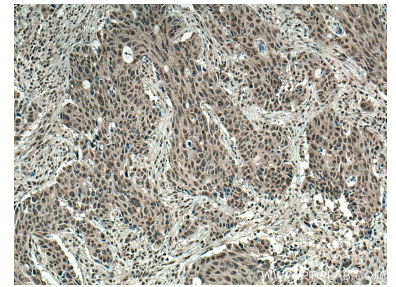
Selected Validation Data



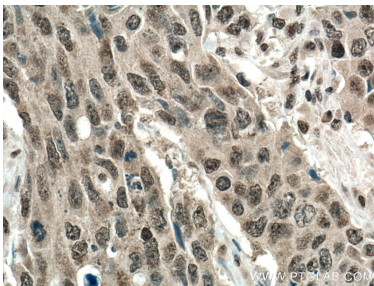
Immunofluorescent analysis of (4% PFA) fixed PC-3 cells using 28366-1-AP (BOP1 antibody) at dilution of 1:100 and CoraLite488-Conjugated Goat Anti-Rabbit IgG(H+L).



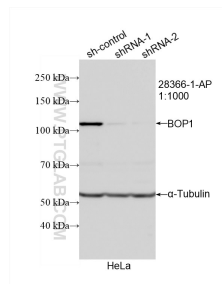
Various lysates were subjected to SDS PAGE followed by western blot with 28366-1-AP (BOP1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 28366-1-AP (BOP1 antibody) at dilution of 1:200 (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 28366-1-AP (BOP1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of BOP1 antibody (28366-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-BOP1 transfected HeLa cells.