

BOP1 Rabbit pAb

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Catalog # AP55009

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q14137
Reactivity	Mouse
Predicted	Rat, Pig, Dog, Human, Chicken, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	83630
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human BOP1
Epitope Specificity	201-300/746
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Predominantly localized to the nucleolus, BOP1 (Block of proliferation 1 protein) is a 746 amino acid highly conserved non-ribosomal protein that is involved in ribosome biogenesis. Truncation of the amino terminus of BOP1 leads to cell growth arrest in the G1 phase and specific inhibition of 28S and 5.8S rRNA synthesis, as well as a deficit in the cytosolic 60S ribosomal subunit. This suggests that BOP1 is involved in the formation of mature rRNAs and in the biogenesis of the 60S ribosomal subunit. BOP1 physically interacts with pescadillo (a protein involved in cell proliferation) and enables efficient incorporation of pescadillo into the nucleolar preribosomal complexes, thereby affecting rRNA maturation and the cell cycle. The BOP1-pescadillo complex is also necessary for biogenesis of 60S ribosomal subunits. Deregulation of BOP1 may lead to colorectal tumorigenesis.

Additional Information

Gene ID	23246
Other Names	Ribosome biogenesis protein BOP1 {ECO:0000255 HAMAP-Rule:MF_03027}, Block of proliferation 1 protein {ECO:0000255 HAMAP-Rule:MF_03027}, BOP1 {ECO:0000255 HAMAP-Rule:MF_03027}, KIAA0124
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

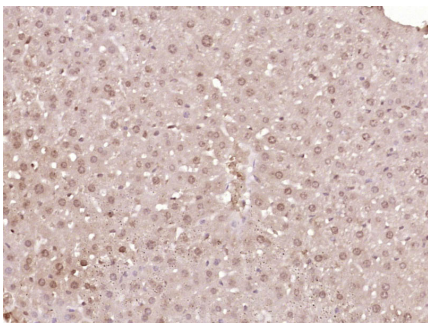
Protein Information

Name	BOP1 {ECO:0000255 HAMAP-Rule:MF_03027}
Synonyms	KIAA0124
Function	Component of the PeBoW complex, which is required for maturation of 28S and 5.8S ribosomal RNAs and formation of the 60S ribosome.
Cellular Location	Nucleus, nucleolus {ECO:0000255 HAMAP- Rule:MF_03027, ECO:0000269 PubMed:12429849}. Nucleus, nucleoplasm {ECO:0000255 HAMAP-Rule:MF_03027, ECO:0000269 PubMed:12429849}

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (Mouse liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (BOP1) Polyclonal Antibody, Unconjugated (AP55009) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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