

Anti-MPP10 Antibody

Catalog # AP51359

Product Information

Application	WB, IF/IC
Primary Accession	O00566
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	78864

Additional Information

Gene ID	10199
Other Names	MPP10; U3 small nucleolar ribonucleoprotein protein MPP10; M phase phosphoprotein 10
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human MPP10. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

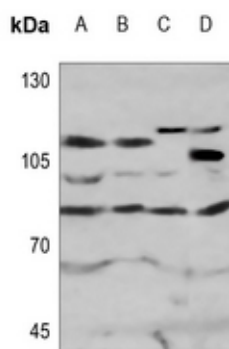
Name	MPHOSPH10 (HGNC:7213)
Synonyms	MPP10
Function	Component of the 60-80S U3 small nucleolar ribonucleoprotein (U3 snoRNP). Required for the early cleavages during pre-18S ribosomal RNA processing (PubMed: 12655004). Part of the small subunit (SSU) processome, first precursor of the small eukaryotic ribosomal subunit. During the assembly of the SSU processome in the nucleolus, many ribosome biogenesis factors, an RNA chaperone and ribosomal proteins associate with the nascent pre-rRNA and work in concert to generate RNA folding, modifications, rearrangements and cleavage as well as targeted degradation of pre-ribosomal RNA by the RNA exosome (PubMed: 34516797).
Cellular Location	Nucleus, nucleolus. Chromosome Note=Fibrillar region of the nucleolus (PubMed:9450966). After dissolution of the nucleolus in early M phase becomes associated with chromosomes through metaphase and anaphase

(PubMed:9450966). In telophase localized to small cellular prenucleolar bodies that not always contain fibrillarin (PubMed:9450966). The reassociation with nucleolus is preceded by the arrival of fibrillarin (PubMed:9450966)

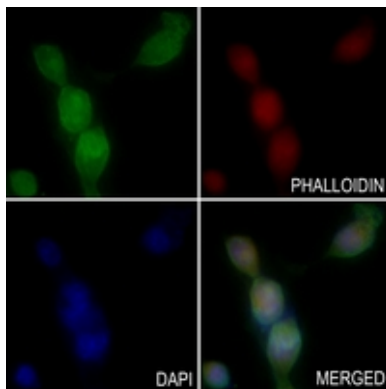
References

Matsumoto-Taniura N.,et al.Mol. Biol. Cell 7:1455-1469(1996).
Westendorf J.M.,et al.Mol. Biol. Cell 9:437-449(1998).
Scherl A.,et al.Mol. Biol. Cell 13:4100-4109(2002).
Granneman S.,et al.Nucleic Acids Res. 31:1877-1887(2003).
Olsen J.V.,et al.Cell 127:635-648(2006).

Images



Western blot analysis of MPP10 expression in K562 (A), U2OS (B), mouse liver (C), rat liver (D) whole cell lysates. (Predicted band size: 78 kD; Observed band size: 79; 120 kD)



Immunofluorescent analysis of MPP10 staining in VB2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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