

MPP10 Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP51359

#### **Product Information**

Application WB Primary Accession 000566

**Reactivity** Human, Mouse, Rat

Host Rabbit
Clonality Polyclonal
Calculated MW 78864

#### **Additional Information**

**Gene ID** 10199

Other Names U3 small nucleolar ribonucleoprotein protein MPP10, M phase

phosphoprotein 10, MPHOSPH10, MPP10

**Target/Specificity** KLH-conjugated synthetic peptide encompassing a sequence within the center

region of human MPP10. The exact sequence is proprietary.

**Dilution** WB~~1:1000

Format 0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

**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:<u>12655004</u>). 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)

# **Background**

Component of the 60-80S U3 small nucleolar ribonucleoprotein (U3 snoRNP). Required for the early cleavages during pre-18S ribosomal RNA processing.

## 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).

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