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IMP3 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9901b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q9NV31
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24885
Calculated MW	21850
Antigen Region	156-184

Additional Information

Gene ID	55272
Other Names	U3 small nucleolar ribonucleoprotein protein IMP3, U3 snoRNP protein IMP3, BRMS2, IMP3, C15orf12, MRPS4
Target/Specificity	This IMP3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 156-184 amino acids from the C-terminal region of human IMP3.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	IMP3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	IMP3 (HGNC:14497)
Synonyms	C15orf12, MRPS4

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

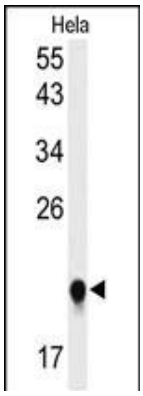
Background

This gene encodes the human homolog of the yeast Imp3 protein. The protein localizes to the nucleoli and interacts with the U3 snoRNP complex. The protein contains an S4 domain.

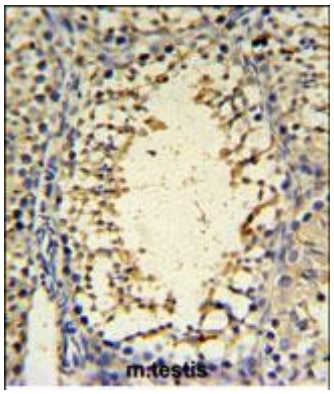
References

Li, D., et al. Ann. Surg. Oncol. 16(12):3499-3506(2009) Walter, O., et al. Hum. Pathol. 40(11):1528-1533(2009) Riener, M.O., et al. Hum. Pathol. 40(10):1377-1383(2009) Noske, A., et al. Int. J. Gynecol. Pathol. 28(3):203-210(2009)

Images

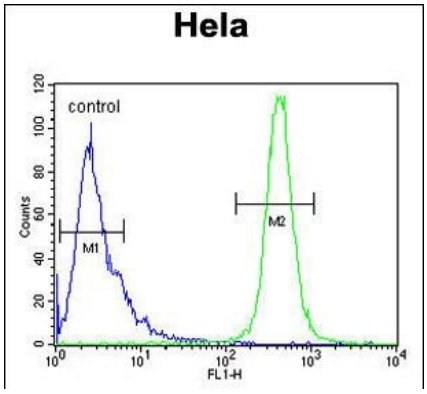


Western blot analysis of IMP3 Antibody (C-term) (Cat. #AP9901b) in Hela cell line lysates (35ug/lane). IMP3 (arrow) was detected using the purified Pab.



IMP3 Antibody (C-term) (Cat. #AP9901b) IHC analysis in formalin fixed and paraffin embedded mouse testis tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the IMP3 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

IMP3 Antibody (C-term) (Cat. #AP9901b) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.