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WTAP Rabbit mAb

Catalog # AP74855

Product Information

Application	WB, IHC-P, FC, IP
Primary Accession	Q15007
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	44244

Additional Information

Gene ID	9589
Other Names	WTAP
Dilution	WB~~1:500-1:1000 IHC-P~~N/A FC~~1:200-1:500 IP~~1:20-1:50
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

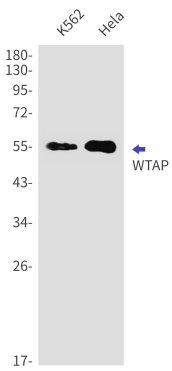
Name	WTAP {ECO:0000303|PubMed:11001926, ECO:0000312|HGNC:HGNC:16846}
Function	Associated component of the WMM complex, a complex that mediates N6-methyladenosine (m6A) methylation of RNAs, a modification that plays a role in the efficiency of mRNA splicing and RNA processing (PubMed:29507755). Required for accumulation of METTL3 and METTL14 to nuclear speckle (PubMed:24316715, PubMed:24407421, PubMed:24981863). Acts as a mRNA splicing regulator (PubMed:12444081). Regulates G2/M cell-cycle transition by binding to the 3' UTR of CCNA2, which enhances its stability (PubMed:17088532). Impairs WT1 DNA-binding ability and inhibits expression of WT1 target genes (PubMed:17095724).
Cellular Location	Nucleus speckle. Nucleus, nucleoplasm. Cytoplasm {ECO:0000250|UniProtKB:Q9ER69}. Note=Mainly nuclear with some fraction located in the cytoplasm. ZC3H13 is required to anchor component of the MACOM subcomplex, such as VIRMA, in the nucleus {ECO:0000250|UniProtKB:Q9ER69}

Tissue Location	Ubiquitously expressed.

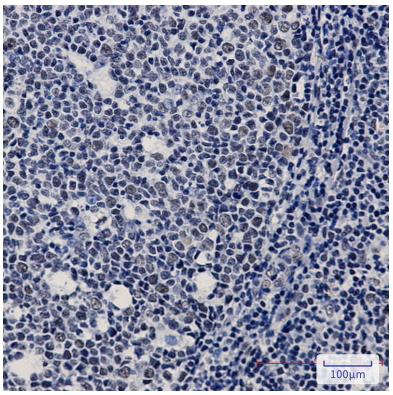
Background

The Wilms tumor suppressor gene WT1 appears to play a role in both transcriptional and posttranscriptional regulation of certain cellular genes. This gene encodes a WT1-associating protein, which is a ubiquitously expressed nuclear protein. Like WT1 protein, this protein is localized throughout the nucleoplasm as well as in speckles and partially colocalizes with splicing factors. Alternative splicing of this gene results in several transcript variants encoding three different isoforms.

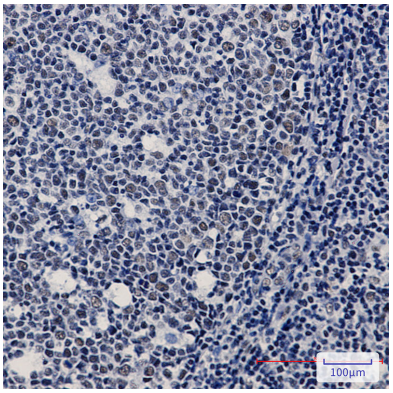
Images

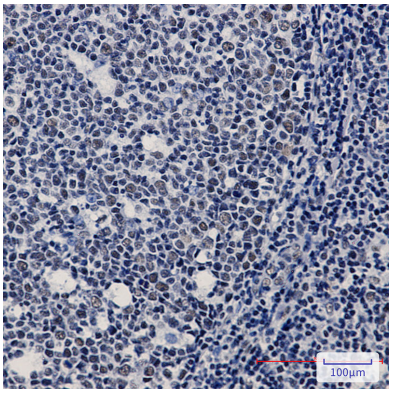


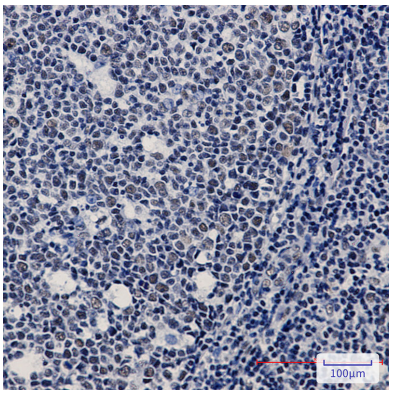
Western blot analysis of WTAP in K562, Hela lysates using WTAP antibody.



Immunohistochemistry analysis of paraffin-embedded Human tonsil using WTAP antibody.High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.







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