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WTAP Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO2050a

Product Information

Application	WB, IHC, FC, ICC, E
Primary Accession	Q15007
Reactivity	Human, Monkey
Host	Mouse
Clonality	Monoclonal
Clone Names	6B6B6
Isotype	IgG1
Calculated MW	44244
Description	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.
Immunogen	Purified recombinant fragment of human WTAP (AA: 91-201) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	9589
Other Names	Pre-mRNA-splicing regulator WTAP, Female-lethal(2)D homolog, hFL(2)D, WT1-associated protein, Wilms tumor 1-associating protein, WTAP, KIAA0105
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 ICC~~N/A E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	WTAP Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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.

References

1.J Gastroenterol. 2013 Nov;48(11):1271-82.2.Cancer Sci. 2012 Dec;103(12):2102-9.

Images