10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

WTAP Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP16885b

Specification

WTAP Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q15007

WTAP Antibody (C-term) Blocking Peptide - 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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

WTAP Antibody (C-term) Blocking Peptide - 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.

WTAP Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

WTAP Antibody (C-term) Blocking Peptide - Images

WTAP Antibody (C-term) Blocking Peptide - Background

The Wilms tumor suppressor gene WT1 appears to play a rolein both transcriptional and posttranscriptional regulation ofcertain cellular genes. This gene encodes a WT1-associatingprotein, which is a ubiquitously expressed nuclear protein. LikeWT1 protein, this protein is localized throughout the nucleoplasmas well as in speckles and partially colocalizes with splicingfactors. Alternative splicing of this gene results in threetranscript variants, two of which encode the same isoform.

WTAP Antibody (C-term) Blocking Peptide - References

Su, J., et al. Diabetes Res. Clin. Pract. 87(2):167-175(2010)Small, T.W., et al. J. Biol. Chem. 284(37):24684-24695(2009)Benyamin, B., et al. Am. J. Hum. Genet. 84(1):60-65(2009)Zhong, S., et al. Plant Cell 20(5):1278-1288(2008)Matsuoka, S., et al. Science 316(5828):1160-1166(2007)