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

Anti-WTAP Antibody

Catalog # AP96120

Product Information

Application	WB, IHC, FC, IF/IC
Primary Accession	Q15007
Reactivity	Human, Mk
Host	Mouse
Clonality	Monoclonal
Calculated MW	44244

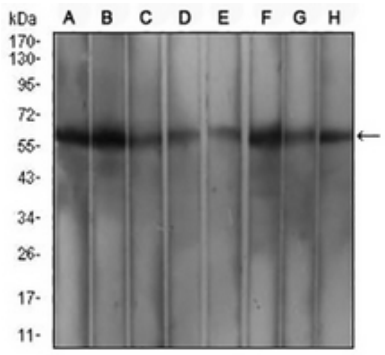
Additional Information

Gene ID	9589
Other Names	KIAA0105; Pre-mRNA-splIC, ing regulator WTAP; Female-lethal(2)D homolog; hFL(2)D; WT1-associated protein; Wilms tumor 1-associating protein
Target/Specificity	Recombinant fusion protein of human WTAP expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~FC (1/100 - 1/200) IF/IC~~N/A
Format	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

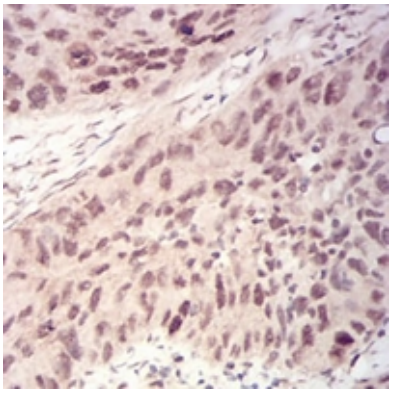
Protein Information

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.

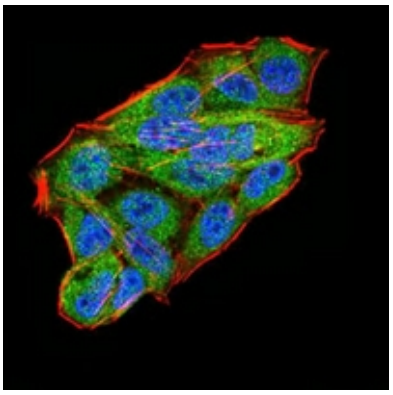
Images



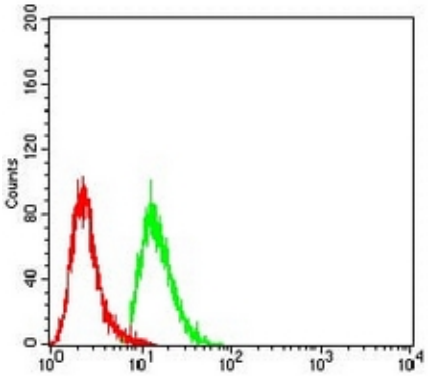
Western blot analysis of WTAP expression in MCF7 (A), Hela (B), K562 (C), HEK293 (D), A549 (E), HepG2 (F), Jurkat (G), COS7 (H) whole cell lysates. (Predicted band size: 44 kD; Observed band size: 60 kD)



Immunohistochemical analysis of WTAP staining in human cervical cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of WTAP staining in Hela cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).



Flow cytometric analysis of A549 cells using Anti-WTAP Antibody (green) and negative control (red).