

## WTAP Antibody

Mouse Monoclonal Antibody [Clone PCR-P-WTAP-1A4]

Catalog No	Format	Size
9589-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
9589-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
9589-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

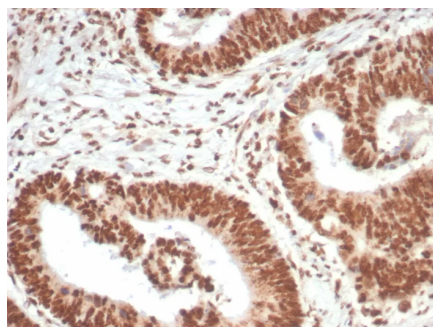
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

### Product Details

<b>Clone</b>	PCR-P-WTAP-1A4
<b>Gene Name</b>	WTAP
<b>Immunogen</b>	Recombinant full-length human WTAP protein
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG2b / Kappa
<b>Mol. Weight of Antigen</b>	44.2kDa
<b>Cellular Localization</b>	Nucleus. Nucleolus.
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	Ubiquitous expression.

\*Optimal dilution for a specific application should be determined.

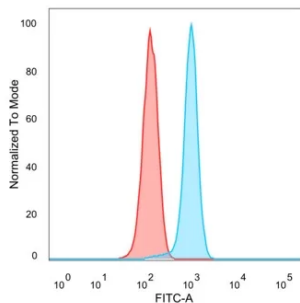
### Product Images for WTAP Antibody



Formalin-fixed, paraffin-embedded human colon carcinoma stained with WTAP Mouse Monoclonal Antibody (PCR-P-WTAP-1A4). HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.



Analysis of Protein Array containing more than 19,000 full-length human proteins using WTAP Mouse Monoclonal (PCR-P-WTAP-1A4). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Flow Cytometric Analysis of PFA-fixed HeLa cells. WTAP Mouse Monoclonal Antibody (PCRP-WTAP-1A4) followed by goat anti-mouse IgG-CF488 (blue); unstained cells (red).

### Specificity & Comments

Wilms tumor (WT) is an embryonal malignancy of the kidney that affects 1 in 10,000 infants and is observed in both sporadic and inherited forms. The Wilms tumor protein (WT1) binds the DNA sequence GCGGGGCG, a recognition element common to the early growth response (Egr) family of Zn<sup>2+</sup> finger transcriptional activators, and functions as a transcriptional repressor. WTAP (wilms tumor 1-associating protein) is a ubiquitously expressed nuclear protein that interacts with WT1 and may be involved in regulating mRNA splicing. WTAP is found in nuclear speckles, where it regulates the G2/M cell cycle transition by binding to the 3' UTR of cyclin A2, thus enhancing its stability. Additionally, WTAP inhibits expression of WT1 target genes and is able to impair the ability of WT1 to bind DNA. Two isoforms of WTAP exist due to alternative splicing events.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

### Research Areas

Nuclear Marker