

## MTAP (Tumor Suppressor Marker) Antibody

Mouse Monoclonal Antibody [Clone MTAP/1813]

Catalog No	Format	Size
4507-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
4507-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
4507-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

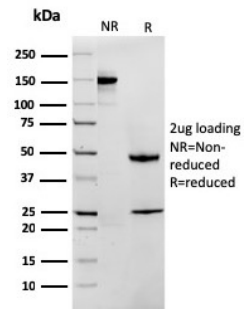
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

### Product Details

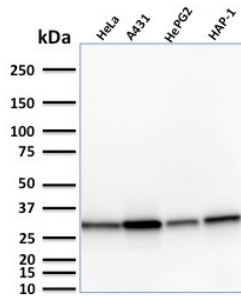
<b>Clone</b>	MTAP/1813
<b>Gene Name</b>	MTAP
<b>Immunogen</b>	Recombinant human MTAP protein fragment (aa97-196) (exact sequence is proprietary)
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG2b / Kappa
<b>Mol. Weight of Antigen</b>	31kDa
<b>Cellular Localization</b>	Cytoplasm, Nucleus
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	A431, HAP1 or MCF-7 cells. Kidney., HeLa, HePG2

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

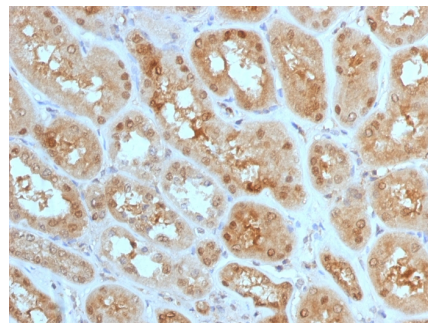
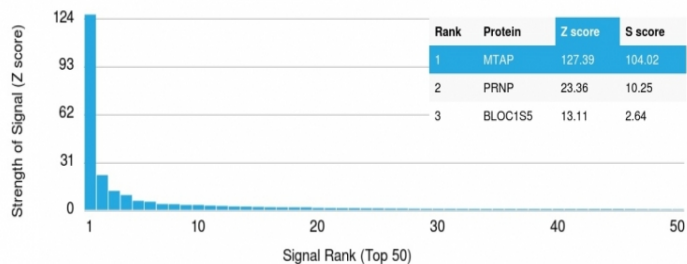
### Product Images for MTAP (Tumor Suppressor Marker) Antibody



SDS-PAGE Analysis of Purified MTAP Mouse Monoclonal Antibody (MTAP/1813). Confirmation of Integrity and Purity of Antibody.



Western Blot Analysis of Human HeLa, A431, HePG2 and HAP1 cell lysate using MTAP Mouse Monoclonal Antibody (MTAP/1813).



Formalin-fixed, paraffin-embedded human Kidney stained with MTAP Mouse Monoclonal Antibody (MTAP/1813).

Analysis of Protein Array containing more than 19,000 full-length human proteins using MTAP Mouse Monoclonal Antibody (MTAP/1813). 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,  $\sigma$ 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,  $\sigma$ 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 be 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.

### Specificity & Comments

Recognizes a protein of 31kDa, which is identified as MTAP (5'-deoxy-5'-methylthioadenosine phosphorylase). It catalyzes the reversible phosphorolysis of methylthioadenosine, which is important in polyamine metabolism and for the salvage of adenine and methionine. The gene encoding MTAP is linked to the tumor suppressor gene, p16INK4A. Deficient levels of MTAP can occur in cancers primarily through co-deletion of the MTAP gene and the p16INK4A gene. Cells expressing MTAP and possessing adenine salvage pathway activity may be less susceptible to malignancy due to growth-inhibitory actions of agents (e.g. antifolates), whose mechanism of action, in part, involves this de novo purine pathway.

### 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

Cardiovascular, Cytokine Signaling, Immunology