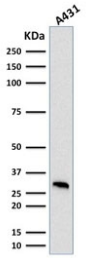
MTAP Antibody / S-methyl-5'-thioadenosine phosphorylase [clone MTAP/1813] (V3868)

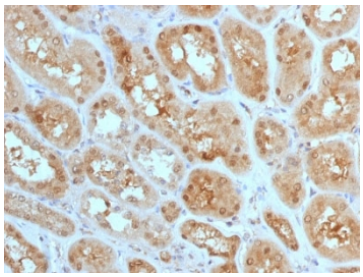
Catalog No.	Formulation	Size
V3868-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3868-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3868SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

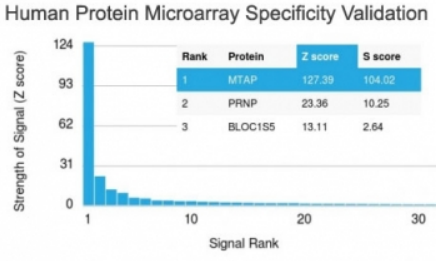
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	MTAP/1813
Purity	Protein G affinity chromatography
UniProt	Q13126
Localization	Cytoplasmic
Applications	ELISA : 2-4ug/ml (order BSA/azide-free format) Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This MTAP antibody is available for research use only.



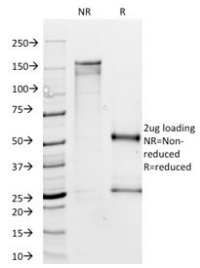
Western blot testing of human A431 cell lysate with MTAP antibody (clone MTAP/1813). Expected molecular weight: 26-38 kDa (multiple isoforms).



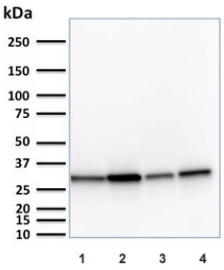
IHC staining of FFPE human kidney with MTAP antibody (clone MTAP/1813). Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using MTAP antibody (clone MTAP/1813). These results demonstrate the foremost specificity of the MTAP/1813 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free MTAP antibody (clone MTAP/1813) as confirmation of integrity and purity.



Western blot testing of human 1) HeLa, 2) A431, 3) HepG2 and 4) HAP-1 cell lysate with MTAP antibody (clone MTAP/1813). Expected molecular weight: 26-38 kDa (multiple isoforms).

Description

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.

Application Notes

Optimal dilution of the MTAP antibody should be determined by the researcher.

Immunogen

A portion of amino acids 97-196 from the human protein was used as the immunogen for the MTAP antibody.

Storage

Store the MTAP antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).