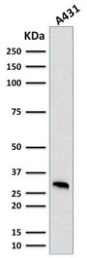
MTAP Antibody / S-methyl-5'-thioadenosine phosphorylase [clone MTAP/1813] (V3868)

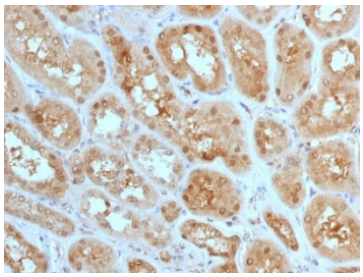
Catalog No.	Formulation	Size
V3868-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3868-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3868SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

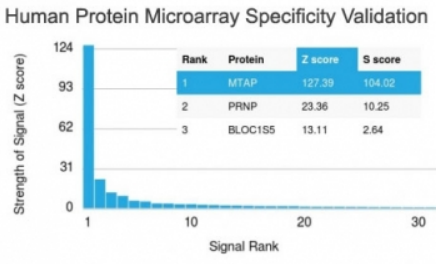
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	MTAP/1813
Purity	Protein G affinity chromatography
UniProt	Q13126
Localization	Cytoplasmic
Applications	ELISA : 2-4ug/ml (order BSA/azide-free format) Western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



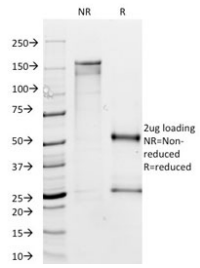
Western blot testing of human A431 cell lysate with MTAP antibody (clone MTAP/1813). Expected molecular weight: 26-38 kDa (multiple isoforms).



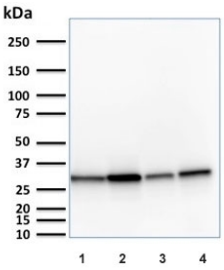
IHC staining of FFPE human kidney with MTAP antibody (clone MTAP/1813). Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



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

MTAP antibody is a specific reagent for detecting methylthioadenosine phosphorylase, an enzyme encoded by the MTAP gene. MTAP is involved in the methionine salvage pathway, where it catalyzes the cleavage of methylthioadenosine into adenine and 5-methylthioribose-1-phosphate. This process recycles methionine and supports polyamine metabolism. Because of its essential role in cellular metabolism and its frequent deletion in cancer, MTAP is a subject of significant biomedical interest.

MTAP expression is normally found in a wide range of tissues, reflecting its fundamental metabolic role. However, loss of MTAP is common in tumors, especially those with deletions at chromosome 9p21, where MTAP lies near the CDKN2A gene. This co-deletion occurs in multiple cancers, including gliomas, pancreatic carcinomas, and mesotheliomas. As a result, MTAP serves as both a tumor suppressor candidate and a biomarker for cancer classification.

The MTAP antibody clone MTAP/1813 ensures reproducible and accurate detection of this enzyme. Recombinant production guarantees consistency across batches, reducing variability in experimental outcomes. Clone MTAP/1813 has been used in studies of tumor biology, metabolic regulation, and translational cancer research. Peer-reviewed

publications highlight MTAP detection in investigations of metabolic vulnerabilities that may be exploited for therapy, demonstrating the antibodyÃ¢Â€Â™s research significance.

Research with clone MTAP/1813 has clarified how MTAP deletion alters methionine metabolism and creates synthetic lethal interactions with PRMT5 and MAT2A pathways. These findings have made MTAP deficiency an emerging therapeutic target, where drugs can selectively exploit metabolic weaknesses in MTAP-deficient cancers. Detecting MTAP expression is therefore important in both experimental and clinical settings.

NSJ Bioreagents supplies this MTAP antibody to support research in cancer biology, metabolism, and therapeutic discovery. MTAP is also referred to as methylthioadenosine phosphorylase antibody, adenine salvage enzyme antibody, 5-methylthioribose phosphorylase antibody, and tumor suppressor candidate antibody.

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).