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36-2804: Anti-MTAP (Tumor Suppressor Marker) Monoclonal Antibody(Clone: MTAP/1813)

Clonality :	Monoclonal
Clone Name :	MTAP/1813
Application :	ELISA,WB,IHC
Reactivity :	Human
Gene :	MTAP
Gene ID :	4507
Uniprot ID :	Q13126
Alternative Name :	BDMF; DMSFH; DMSMFH; Epididymis luminal protein 249; HEL249; LGMBF; MeSAdo phosphorylase; Methylthioadenosine phosphorylase; MSAP; MTA phosphorylase; MTAP; MTAPase; S-methyl-5''-thioadenosine phosphorylase
Isotype :	Mouse IgG2b, kappa
Immunogen Information :	Recombinant human MTAP protein fragment (aa97-196) (exact sequence is proprietary)

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 throÂµgh 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.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/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 condition :	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.

Application Note

ELISA (Use Ab at 2-4ug/ml for coating) (Order Ab without BSA); Western Blot (1-2ug/ml);Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes 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&degC followed by cooling at RT for 20 minutes);

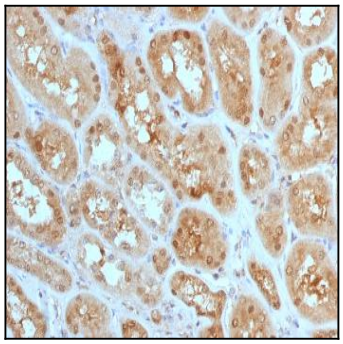


Fig. 1: Formalin-fixed, paraffin-embedded human Kidney stained with MTAP Mouse Monoclonal Antibody (MTAP/1813).

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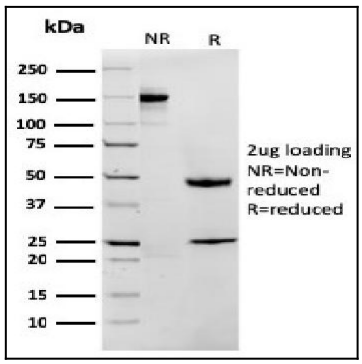


Fig. 2: SDS-PAGE Analysis Purified MTAP Mouse Monoclonal Antibody (MTAP/1813). Confirmation of Integrity and Purity of Antibody.

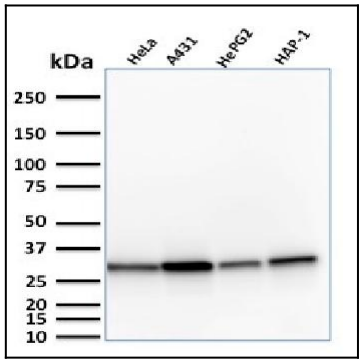


Fig. 3: Western Blot Analysis of Human HeLa, A431, HePG2 and HAP1 cell lysate using MTAP Mouse Monoclonal Antibody (MTAP/1813).

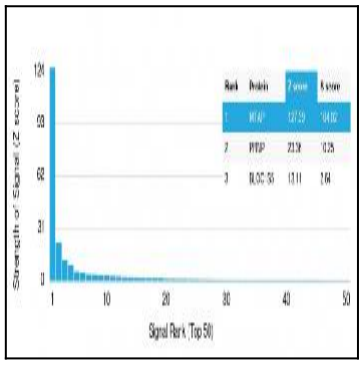


Fig. 4: Analysis of Protein Array containing more than 19,000 full-length human proteins using MTAP Mouse Monoclonal Antibody (MTAP/1813). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM 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 HuProtTM 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.

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