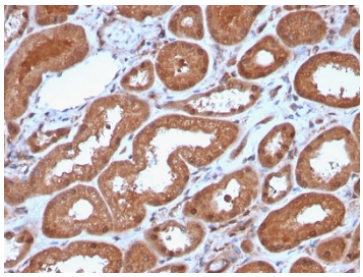
Recombinant MTAP Antibody / S-methyl-5'-thioadenosine phosphorylase [clone MTAP/3137R] (V7439)

Catalog No.	Formulation	Size
V7439-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7439-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7439SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7439IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

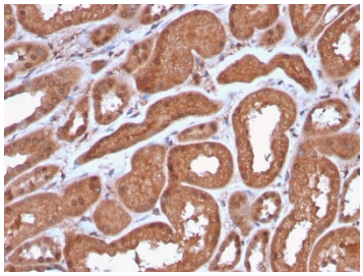
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	MTAP/3137R
Purity	Protein A 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 recombinant MTAP antibody is available for research use only.



IHC staining of FFPE human kidney with recombinant MTAP antibody. Required HIER: steam section in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool prior to staining.



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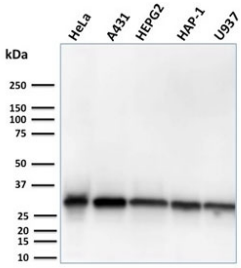
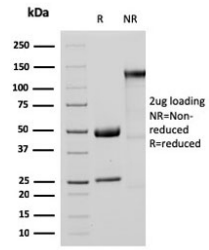
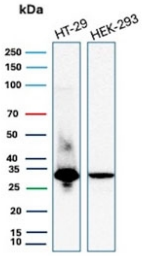


Western blot testing of human HeLa, A431, HepG2, HAP1 and U937 cell lysate with recombinant MTAP antibody. Expected molecular weight: 26-38 kDa (multiple isoforms).



SDS-PAGE analysis of purified, BSA-free recombinant MTAP antibody (clone MTAP/3137R) as confirmation of integrity and purity.



Western blot testing of human HT-29 and HEK293 cell lysate with recombinant MTAP antibody. 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 recombinant MTAP antibody should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

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

Storage

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