

#4158 Store at -20°C

MTAP Antibody


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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 29	Source: Rabbit	UniProt ID: #Q13126	Entrez-Gene Id: 4507
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Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	MTAP Antibody detects endogenous levels of total MTAP protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the N terminus of human MTAP. Antibodies were purified by protein A and peptide affinity chromatography.	
Background	MTAP is an enzyme that is essential for the salvage pathway for both adenine and methionine synthesis. MTAP catalyzes the cleavage of 5'-methylthioadenosine into adenine and 5-methylthio-D-ribose-1-phosphate. Adenine is then used to generate AMP whereas 5-methylthio-D-ribose-1-phosphate is converted into methionine (1,2). MTAP is expressed in all normal cells and tissues, although frequently lost in different human tumors, including pancreatic adenocarcinoma, neuroendocrine tumors, non-small cell lung carcinoma, and breast carcinoma. MTAP is usually codeleted with p16 (cdkN2a/ARF) (3-5). MTAP overexpression in breast cancer cells inhibits their ability to form colonies in soft agar, thereby implicating its function as a tumor suppressor (6).	
Background References	1. Backlund, P.S. and Smith, R.A. (1981) <i>J Biol Chem</i> 256, 1533-5. 2. Backlund, P.S. et al. (1982) <i>J Biol Chem</i> 257, 4196-202. 3. Dreyling, M.H. et al. (1998) <i>Genes Chromosomes Cancer</i> 22, 72-8. 4. Zhang, H. et al. (1996) <i>Cancer Genet Cytogenet</i> 86, 22-8. 5. Illei, P.B. et al. (2003) <i>Clin Cancer Res</i> 9, 2108-13. 6. Christopher, S.A. et al. (2002) <i>Cancer Res</i> 62, 6639-44.	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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