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# MTAP Antibody

Store at -20C  
#4158

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

<b>Applications:</b> W	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 29	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #Q13126	<b>Entrez-Gene Id:</b> 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) *J Biol Chem* 256, 1533-5.
2. Backlund, P.S. et al. (1982) *J Biol Chem* 257, 4196-202.
3. Dreyling, M.H. et al. (1998) *Genes Chromosomes Cancer* 22, 72-8.
4. Zhang, H. et al. (1996) *Cancer Genet Cytogenet* 86, 22-8.
5. Illei, P.B. et al. (2003) *Clin Cancer Res* 9, 2108-13.
6. Christopher, S.A. et al. (2002) *Cancer Res* 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

**W:** Western Blotting

## Cross-Reactivity Key

**H:** Human **M:** Mouse **R:** Rat **Mk:** Monkey

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