

ASMTL Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP13236c

Product Information

Application	WB, IHC-P, E
Primary Accession	O95671
Other Accession	NP_001166945.1 , NP_004183.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33103
Calculated MW	68857
Antigen Region	231-259

Additional Information

Gene ID	8623
Other Names	N-acetylserotonin O-methyltransferase-like protein, ASMTL, 211-, ASMTL
Target/Specificity	This ASMTL antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 231-259 amino acids from the Central region of human ASMTL.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ASMTL Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ASMTL
Function	Nucleoside triphosphate pyrophosphatase that hydrolyzes dTTP and UTP. Can also hydrolyze CTP and the modified nucleotides pseudo- UTP, 5-methyl-UTP (m(5)UTP) and 5-methyl-CTP (m(5)CTP). Has weak activity with dCTP, 8-oxo-GTP and N(4)-methyl-dCTP (PubMed: 24210219). May have a dual

role in cell division arrest and in preventing the incorporation of modified nucleotides into cellular nucleic acids (PubMed:[24210219](#)). In addition, the presence of the putative catalytic domain of S-adenosyl-L-methionine binding in the C-terminal region argues for a methyltransferase activity (Probable).

Tissue Location

Widely expressed. In adult, highly expressed in pancreas, placenta, fibroblast, thymus, prostate, testis, ovary and colon. Expressed at lower levels in spleen, small intestine and leukocytes. In fetus, expressed at high levels in the lung and kidney and at lower level in brain and liver

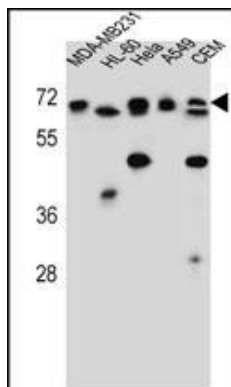
Background

The protein encoded by this gene has an N-terminus that is similar to the multicopy associated filamentation (maf) protein of *Bacillus subtilis* and to orfE of *Escherichia coli*, while the C-terminus is similar to N-acetylserotonin O-methyltransferase. This gene is located in the pseudoautosomal region 1 (PAR1) of X and Y chromosomes. Three transcript variants encoding different isoforms have been found for this gene.

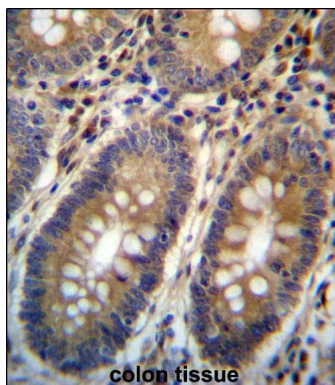
References

Olsen, J.V., et al. Cell 127(3):635-648(2006)
Olsen, J.V., et al. Cell 127(3):635-648(2006)
Ried, K., et al. Hum. Mol. Genet. 7(11):1771-1778(1998)

Images



ASMTL Antibody (Center) (Cat. #AP13236c) western blot analysis in MDA-MB231,HL-60,HeLa,A549,CEM cell line lysates (35ug/lane).This demonstrates the ASMTL antibody detected the ASMTL protein (arrow).



ASMTL Antibody (Center) (Cat. #AP13236c)immunohistochemistry analysis in formalin fixed and paraffin embedded human colon tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of ASMTL Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.