ASMT Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ASMT, Polyclonal Antibody
Full Product Name	ASMT Rabbit pAb
Product Gene Name	anti-ASMT antibody
Product Synonym Names	ASMTY; HIOMT; HIOMTY
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.02% Sodium Azide, 50% Glycerol, pH 7.3.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	33kDa; 38kDa; 41kDa
OMIM	300015
3D Structure	ModBase 3D Structure for P46597
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-298 of human ASMT (NP_001164510.1).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ASMT antibody	Western Blot (WB), Immunofluorescence (IF)
Application Notes for anti-ASMT antibody	WB: 1:500-1:2000 IF: 1:50-1:100
Related Product Information for anti-ASMT antibody	Isoform 1 catalyzes the transfer of a methyl group onto N-acetylserotonin, producing melatonin (N-acetyl-5-methoxytryptamine). Isoform 2 and isoform 3 lack enzyme activity.
Other Notes	Small volumes of anti-ASMT antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ASMT purchase	MBS8546164 is an antibody targeting ASMT. Also known as ASMT Rabbit pAb. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ASMT. It may not necessarily be applicable to this product.

NCBI GI #	283549144
NCBI GeneID	438
NCBI Accession #	NP_001164509.1
UniProt Primary Accession #	P46597

UniProt Related Accession #	P46597
GenBank Nucleotide #	NP_001164509.1
NCBI Official Full Name	acetylserotonin O-methyltransferase isoform 1
NCBI Official Synonym Full Names	acetylserotonin O-methyltransferase
NCBI Official Symbol	ASMT
NCBI Official Synonym Symbols	ASMTY; HIOMT; HIOMTY
UniProt Protein Name	Acetylserotonin O-methyltransferase
UniProt Synonym Protein Names	Hydroxyindole O-methyltransferase; HIOMT
Protein Family	Acetylserotonin O-methyltransferase
UniProt Gene Name	ASMT
UniProt Synonym Gene Names	HIOMT
UniProt Entry Name	ASMT_HUMAN
NCBI Protein Information	acetylserotonin O-methyltransferase
NCBI Summary for ASMT	This gene belongs to the methyltransferase superfamily, and is located in the pseudoautosomal region (PAR) at the end of the short arms of the X and Y chromosomes. The encoded enzyme catalyzes the final reaction in the synthesis of melatonin, and is abundant in the pineal gland. Alternatively spliced transcript variants have been noted for this gene. [provided by RefSeq, Jan 2010]
UniProt Comments for ASMT	ASMT: Produces melatonin (N-acetyl-5-methoxytryptamine) from N-acetylserotonin. Belongs to the methyltransferase superfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Methyltransferase; EC 2.1.1.4; Amino Acid Metabolism - tryptophan Chromosomal Location of Human Ortholog: Xp22.3 or Yp11.3 Cellular Component: cytosol Molecular Function: identical protein binding; protein homodimerization activity; O-methyltransferase activity; acetylserotonin O-methyltransferase activity Biological Process: methylation; melatonin biosynthetic process; translation; indolalkylamine biosynthetic process
Research Articles on ASMT	**1.** Low HIOMT expression is associated with lung cancer.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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