ASMT Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ASMT, Polyclonal Antibody
Full Product Name	ASMT, ID (ASMT, Acetylserotonin O-methyltransferase, Hydroxyindole O-methyltransferase) (MaxLight 750)
Product Gene Name	anti-ASMT antibody
Product Synonym Names	ASMT; Acetylserotonin O-methyltransferase; Hydroxyindole O-methyltransferase
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	41,661 Da
OMIM	300015
3D Structure	ModBase 3D Structure for P46597
Immunogen	ASMT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 219~249 amino acids from the Central region of human ASMT.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-ASMT antibody	Antibodies; Enzymes; Methyltransferase
Applications Tested/Suitable for anti-ASMT antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-ASMT antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:50-100 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-ASMT antibody	ASMT 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.
Product References and Citations for anti-ASMT antibody	Melke, J., et al. Mol. Psychiatry 13(1):90-98(2008). Toma, C., et al. Mol. Psychiatry 12(11):977-979(2007). Ross, M.T., et al. Nature 434(7031):325-337(2005). Itoh, M.T., et al. Horm. Metab. Res. 35(3):153-157(2003).
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	MBS6275653 is an antibody targeting ASMT. Also known as ASMT, ID (ASMT, Acetylserotonin O-methyltransferase, Hydroxyindole O-methyltransferase) (MaxLight 750). 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 Secondary Accession #	Q16598; Q5JQ72; Q5JQ73; B2RC33
UniProt Related Accession #	P46597
GenBank Nucleotide #	NM_001171038.1
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; acetylserotonin N-methyltransferase; acetylserotonin methyltransferase (Y chromosome); hydroxyindole 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.** These data suggest a relationship between decreased mRNA and protein expression levels of ASMT gene and cognitive impairment.

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