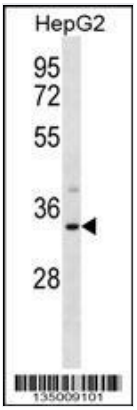
SULT1A3 Antibody – Rabbit Polyclonal

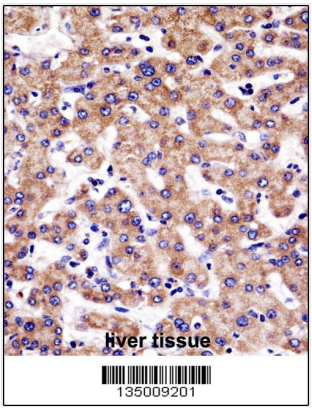
PRODUCT OVERVIEW

Product Name	SULT1A3, Polyclonal Antibody
Full Product Name	SULT1A3, ID (SULT1A3, STM, Sulfotransferase 1A3/1A4, Aryl sulfotransferase 1A3/1A4, Catecholamine-sulfating phenol sulfotransferase, HAST3, M-PST, Monoamine-sulfating phenol sulfotransferase, Placental estrogen sulfotransferase, Sulfotransferase, monoamin
Product Gene Name	anti-SULT1A3 antibody
Product Synonym Names	SULT1A3; STM; Sulfotransferase 1A3/1A4; Aryl sulfotransferase 1A3/1A4; Catecholamine-sulfating phenol sulfotransferase; HAST3; M-PST; Monoamine-sulfating phenol sulfotransferase; Placental estrogen sulfotransferase; Sulfotransferase; monoamine-preferring; Thermolabile phenol sulfotransferase
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 Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
3D Structure	ModBase 3D Structure for P50224
Immunogen	SULT1A3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 66-95 amino acids from the Central region of human SULT1A3.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-SULT1A3 antibody	Antibodies; Enzymes; Sulfotransferase
Applications Tested/Suitable for anti-SULT1A3 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-SULT1A3 antibody	IHC: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-SULT1A3 antibody	Sulfotransferase enzymes catalyze the sulfate conjugation of many hormones, neurotransmitters, drugs, and xenobiotic compounds. These cytosolic enzymes are different in their tissue distributions and substrate specificities. The gene structure (number and length of exons) is similar among family members. This gene encodes a phenol sulfotransferase with thermolabile enzyme activity. Four sulfotransferase genes are located on the p arm of chromosome 16; this gene and SULT1A4 arose from a segmental duplication. This gene is the most centromeric of the four sulfotransferase genes. Read-through transcription exists between this gene and the upstream SLX1A (SLX1 structure-specific endonuclease subunit homolog A) gene that encodes a protein containing GIY-YIG domains.

Product References and Citations for anti-SULT1A3 antibody	Mitra, P., et al. Biochem. Pharmacol. 78(12):1475-1482(2009). Riches, Z., et al. Drug Metab. Dispos. 37(11):2255-2261(2009). Yasuda, S., et al. Neurosci. Res. 64(3):273-279(2009). Salman, E.D., et al. Drug Metab. Dispos. 37(4):706-709(2009). Miksits, M., et al. J. Pharm. Pharmacol. 61(2):185-191(2009).
Other Notes	Small volumes of anti-SULT1A3 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 SULT1A3 purchase	MBS6352492 is an antibody targeting SULT1A3. Also known as SULT1A3, ID (SULT1A3, STM, Sulfotransferase 1A3/1A4, Aryl sulfotransferase 1A3/1A4, Catecholamine-sulfating phenol sulfotransferase, HAST3, M-PST, Monoamine-sulfating phenol sulfotransferase, Placental estrogen sulfotransferase, Sulfotransferase, monoamin. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-SULT1A3 antibody
SULT1A3 Antibody (Center) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the SULT1A3 antibody detected the SULT1A3 protein (arrow).



Immunohistochemistry (IHC) of anti-SULT1A3 antibody
SULT1A3 Antibody (Center) (AP14760c)immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of SULT1A3 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SULT1A3. It may not necessarily be applicable to this product.

NCBI GI #	10835035
NCBI GeneID	6818
NCBI Accession #	NP_003157.1
NCBI Related Accession #	NP_808220.1
UniProt Primary Accession #	P50224
UniProt Related Accession #	P0DMM9
GenBank Nucleotide #	NM_003166.3
NCBI Official Synonym Full Names	sulfotransferase family 1A member 3
NCBI Official Symbol	SULT1A3
NCBI Official Synonym Symbols	STM; HAST; HAST3; M-PST; ST1A3; ST1A4; ST1A5; TL-PST; ST1A3/ST1A4
Protein Family	Sulfotransferase
NCBI Protein Information	sulfotransferase 1A3

UniProt Comments for SULT1A3	SULT1A3: Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the sulfate conjugation of phenolic monoamines (neurotransmitters such as dopamine, norepinephrine and serotonin) and phenolic and catechol drugs. Belongs to the sulfotransferase 1 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 2.8.2.1; Energy Metabolism - sulfur; Transferase Chromosomal Location of Human Ortholog: 16p11.2 Cellular Component: cytosol Molecular Function: sulfotransferase activity; aryl sulfotransferase activity Biological Process: steroid metabolic process; cellular protein metabolic process; unfolded protein response, activation of signaling protein activity; flavonoid metabolic process; unfolded protein response; xenobiotic metabolic process; sulfation; catecholamine metabolic process; 3'-phosphoadenosine 5'-phosphosulfate metabolic process
Research Articles on SULT1A3	**1.** The results obtained showed clearly the differential enzymatic characteristics of SULT1A3 allozymes in mediating the sulfation of phenylephrine and salbutamol. This information may contribute toward a better understanding of the pharmacokinetics of these two drugs in individuals with distinct SULT1A3 and/or SULT1A4 genotypes.
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