

CSPS/MPST Rabbit pAb

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Catalog # AP55026

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P0DMM9
Reactivity	Mouse
Predicted	Rat, Human, Rabbit, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	34196
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CSPS
Epitope Specificity	201-295/295
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. [provided by RefSeq, Nov 2010]

Additional Information

Gene ID	445329;6818
Other Names	Sulfotransferase 1A3, ST1A3, 2.8.2.1, Aryl sulfotransferase 1A3/1A4, Catecholamine-sulfating phenol sulfotransferase, HAST3, M-PST, Monoamine-sulfating phenol sulfotransferase, Placental estrogen sulfotransferase, Sulfotransferase 1A3/1A4, Sulfotransferase, monoamine-preferring, Thermolabile phenol sulfotransferase, TL-PST, SULT1A3, STM
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
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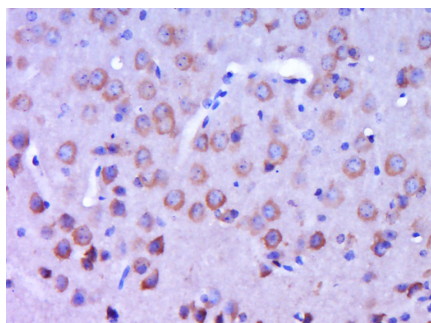
Protein Information

Name	SULT1A3
Synonyms	STM
Function	Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the sulfate conjugation of phenolic monoamines (neurotransmitters such as dopamine, (R)- adrenaline/epinephrine, (R)-noradrenaline/norepinephrine and serotonin) and phenolic and catechol drugs (PubMed: 8093002 , PubMed: 29524394 , PubMed: 14622112 , PubMed: 15358107). Catalyzes the sulfation of T4 (L-thyroxine/3,5,3',5'-tetraiodothyronine), T3 (3,5,3'-triiodothyronine), rT3 (3,3',5'-triiodothyronine) and 3,3'-T2 (3,3'-diiodothyronine), with a substrate preference of 3,3'-T2 > rT3 > T3 > T4 (PubMed: 10199779).
Cellular Location	Cytoplasm.
Tissue Location	Liver, colon, kidney, lung, brain, spleen, small intestine, placenta and leukocyte.

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CSPS) Polyclonal Antibody, Unconjugated (AP55026) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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