Mouse Monoclonal Antibody to Human Sulfotransferase Family, Cytosolic, 2A, Dehydroepiandrosterone-Preferring, Member 1

Cat. No. CAB11609MH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse Monoclonal Antibody to Human Sulfotransferase Family, Cytosolic, 2A, Dehydroepiandrosterone-Preferring, Member 1
Species	Human
Source	Mouse
Antigen Description	Hydroxysteroid sulfotransferase (SULT2A1) is a key enzyme in the testicular and hepatic metabolism of 5alpha-androstenone, which is a major component of the off-odor and off-flavor in pork known as boar taint. 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. SULT2A1 is a sulfo-conjugating phase II enzyme expressed at very high levels in the liver and intestine, the two major first-pass metabolic tissues, and in the steroidogenic adrenal tissue. SULT2A1 acts preferentially on the hydroxysteroids dehydroepiandrosterone, testosterone / dihydrotestosterone, and pregnenolone and on cholesterol-derived amphipathic sterol bile acids.
Specificity	Human SULT2A1 / STD. No cross-reactivity with human SULT1B1 and E.coli cell lysate in WB and ELISA

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Immunogen	Recombinant human SULT2A1 protein
Isotype	Mouse IgG1
Clone	10H9H13H11
Applications	Western blot; ELISA
Dilution	Western blot: This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect human SULT2A1 in WB. Using a DAB detection system, the detection limit for human SULT2A1 is approximately 1 ng/lane under non-reducing conditions and reducing conditionsDirect ELISA: This antibody can be used at 0.5 - 1 µg/mL with the appropriate secondary reagents to detect human SULT2A1. The detection limit for human SULT2A1 is approximately 0.039 ng/well
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, human cell-derived, recombinant human SULT2A1 (rh SULT2A1; NP_003158.2 ; Ser 2 - Glu 285). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free.Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

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Gene Name	SULT2A1 sulfotransferase family, cytosolic, 2A, dehydroepiandrosterone (DHEA)-preferring, member 1 [Homo sapiens]
Official Symbol	SULT2A1
Synonyms	SULT2A1; sulfotransferase family, cytosolic, 2A, dehydroepiandrosterone (DHEA)-preferring, member 1; STD; bile salt sulfotransferase; DHEA ST; bile-salt sulfotranasferase 2A1; alcohol/hydroxysteroid sulfotransferase; HST; ST2; hSTa; DHEAS; ST2A1; ST2A3; DHEA-ST;
Gene ID	6822
mRNA Refseq	NM_003167
Protein Refseq	NP_003158
MIM	125263
UniProt ID	Q06520
Chromosome Location	19q13.3
Pathway	Bile secretion, organism-specific biosystem; Bile secretion, conserved biosystem; Biological oxidations, organism-specific biosystem; Cytosolic sulfonation of small molecules, organism-specific biosystem; E2F transcription factor network, organism-specific biosystem; Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Metabolism, organism-specific biosystem;
Function	bile-salt sulfotransferase activity; protein binding; sulfotransferase activity; sulfotransferase activity; transferase activity;

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