

Rabbit Monoclonal Antibody to Human Sulfotransferase Family, Cytosolic, 2B, Member 1

Cat. No. CAB11610RH Lot. No. (See product label)

SPECIFICATION

Product Overview

Rabbit Monoclonal Antibody to Human Sulfotransferase Family, Cytosolic, 2B, Member 1

Species

Human

Source

Rabbit

Antigen Description

Sulfotransferase family cytosolic 2B member 1, also known as Sulfotransferase 2B1, ST2B1, Alcohol sulfotransferase, Hydroxysteroid sulfotransferase 2, SULT2B1 and HSST2, is a cytoplasm protein which belongs to the sulfotransferase 1 family. The human hydroxysteroid sulfotransferase (SULT) family is comprised of two subfamilies, SULT2A1 and SULT2B1. SULT2B1 is expressed highly in placenta, prostate and trachea. A lesser expression of SULT1B1 was observed in the small intestine and lung. SULT2B1 catalyzes the sulfate conjugation of many hormones, neurotransmitters, drugs and xenobiotic compounds. Sulfonation increases the water solubility of most compounds, and therefore their renal excretion, but it can also result in bioactivation to form active metabolites. SULT2B1 sulfates hydroxysteroids like DHEA. Isoform 1 preferentially sulfonates cholesterol. The two SULT2B1 isoforms, SULT2B1a and SULT2B1b, are encoded by a single gene as a result of alternative transcription initiation and alternative splicing. SULT2B1b catalyzes the sulfonation of 3beta-hydroxysteroid hormones and cholesterol, whereas SULT2B1a preferentially catalyzes pregnenolone sulfonation.

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Specificity	Human SULT2B1. No cross-reactivity in ELISA with Human SULT2A1; Human cell lysate (293 cell line)
Immunogen	Recombinant Human SULT2B1 Protein
Isotype	Rabbit IgG
Clone	A008
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 SULT2B1 in WB. Using a DAB detection system, the detection limit for Human SULT2B1 is approximately 5 ng/lane under non-reducing conditions and 2 ng/lane under reducing conditions. Direct ELISA: This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect Human SULT2B1. The detection limit for Human SULT2B1 is approximately 0.00245 ng/well.
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Human SULT2B1
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	SULT2B1 sulfotransferase family, cytosolic, 2B, member 1 [Homo sapiens]
Official Symbol	SULT2B1
Synonyms	SULT2B1; sulfotransferase family, cytosolic, 2B, member 1; sulfotransferase family cytosolic 2B member 1; HSST2; ST2B1; sulfotransferase 2B1; alcohol sulfotransferase; hydroxysteroid sulfotransferase 2;
Gene ID	6820
mRNA Refseq	NM_004605
Protein Refseq	NP_004596
MIM	604125
UniProt ID	O00204
Chromosome Location	19q13.3
Pathway	Biological oxidations, organism-specific biosystem; Cytosolic sulfonation of small molecules, organism-specific biosystem; Metabolism, organism-specific biosystem; Phase II conjugation, organism-specific biosystem; Steroid hormone biosynthesis, organism-specific biosystem; Steroid hormone biosynthesis, conserved biosystem; Sulfur metabolism, organism-specific biosystem;
Function	alcohol sulfotransferase activity; protein binding; steroid sulfotransferase activity; transferase activity;