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SULT2B1a/b Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2604a

Specification

SULT2B1a/b Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	O00204
Other Accession	NP_814444
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**41308**
Antigen Region	**1-30**

SULT2B1a/b Antibody (N-term) - Additional Information

Gene ID 6820

Other Names
Sulfotransferase family cytosolic 2B member 1, ST2B1, Sulfotransferase 2B1, Alcohol sulfotransferase, Hydroxysteroid sulfotransferase 2, SULT2B1, HSST2

Target/Specificity
This SULT2B1a/b antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human SULT2B1a/b.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
SULT2B1a/b Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

SULT2B1a/b Antibody (N-term) - Protein Information

Name SULT2B1

Synonyms HSST2

Function Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the sulfate conjugation. Responsible for the sulfation of cholesterol (PubMed:19589875, PubMed:12145317). Catalyzes sulfation of the 3beta-hydroxyl groups of steroids, such as, pregnenolone and dehydroepiandrosterone (DHEA) (PubMed:9799594, PubMed:12145317, PubMed:21855633, PubMed:16855051). Preferentially sulfonates cholesterol, while it has also significant activity with pregnenolone and DHEA (PubMed:12145317, PubMed:21855633). Plays a role in epidermal cholesterol metabolism and in the regulation of epidermal proliferation and differentiation (PubMed:28575648).

Cellular Location
Cytoplasm, cytosol. Microsome. Nucleus. Note=Phosphorylation of Ser-348 is required for translocation to the nucleus

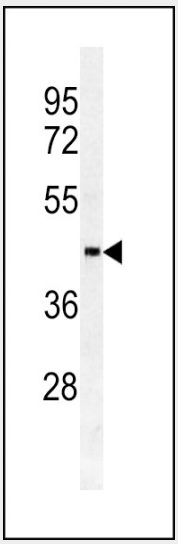
Tissue Location
Expressed in the stratum granulosum-stratum corneum junction in the skin (at protein level) (PubMed:28575648). Expressed highly in placenta, prostate and trachea and lower expression in the small intestine and lung (PubMed:9799594)

SULT2B1a/b Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SULT2B1a/b Antibody (N-term) - Images



Western blot analysis of SULT2B1a/b antibody (N-term) (Cat.# Ap2604a) in HL60 cell line lysates (35ug/lane). SULT2B1a/b (arrow) was detected using the purified Pab.

SULT2B1a/b Antibody (N-term) - Background

Cytosolic sulfotransferases (STs or SULTs) catalyze the sulfate conjugation of many drugs, xenobiotic compounds, hormones, and neurotransmitters. Her et al. (1998) identified an EST with homology to ST enzymes. By PCR with human placental and prostate cDNA as template, they isolated 2 alternatively spliced cDNAs, identical throughout most of their sequences, but having different 5-prime ends. The shorter cDNA, SULT2B1a, encodes a protein of 350 amino acids; the longer cDNA, SULT2B1b, encodes a 365-amino acid protein. Genomic PCR analysis revealed that the gene encoding both cDNAs, SULT2B1, contains 7 exons, with 2 alternative first exons being used to generate SULT2B1a and SULT2B1b. Northern blot analysis revealed that the SULT2B1 gene is expressed as a 1.4-kb transcript predominantly in prostate, placenta, and trachea.

SULT2B1a/b Antibody (N-term) - References

Her, C., et al. Genomics 53: 284-295 (1998).