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SULT1C1 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2602b

Specification

SULT1C1 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	O00338
Other Accession	NP_789795
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**34880**
Antigen Region	**95-127**

SULT1C1 Antibody (Center) - Additional Information

Gene ID 6819

Other Names
Sulfotransferase 1C2, ST1C2, 282-, Sulfotransferase 1C1, SULT1C#1, humSULTC2, SULT1C2, SULT1C1

Target/Specificity
This SULT1C1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 95-127 amino acids from the Central region of human SULT1C1.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

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
SULT1C1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

SULT1C1 Antibody (Center) - Protein Information

Name SULT1C2

Synonyms SULT1C1

Function Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) to catalyze the sulfate conjugation of phenolic compounds (PubMed:10481272, PubMed:10783263, PubMed:9852044). Does not transfer sulfate to steroids, dopamine, acetaminophen, or alpha-naphthol (PubMed:10481272, PubMed:9852044). Except in mitochondria, where it can add sulfate to cholesterol producing cholesterol sulfate, which alters mitochondrial membrane organization, and impacts protein complex mobility increasing state-III respiration, thereby modulating mitochondrial respiration (By similarity). Catalyzes the sulfation of the carcinogenic N-hydroxy-2-acetylaminofluorene leading to highly reactive intermediates capable of forming DNA adducts, potentially resulting in mutagenesis (PubMed:9852044).

Cellular Location
Cytoplasm {ECO:0000250|UniProtKB:O46503}. Lysosome {ECO:0000250|UniProtKB:Q9WUW8}. Mitochondrion {ECO:0000250|UniProtKB:Q9WUW8}

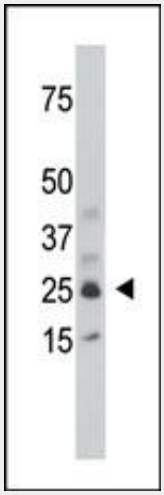
Tissue Location
Found in adult stomach, kidney and thyroid gland, and in fetal kidney and liver

SULT1C1 Antibody (Center) - 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

SULT1C1 Antibody (Center) - Images



The anti-SULT1C1 Pab (Cat. #AP2602b) is used in Western blot to detect SULT1C1 in mouse kidney tissue lysate.

SULT1C1 Antibody (Center) - Background

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The 296-amino acid human SULTC1 protein, so named on the basis of its significant homology to a rat hepatic cytosolic sulfotranserase ST1C1, catalyzes the sulfate conjugation of many drugs, xenobiotic compounds, hormones, and neurotransmitters, and may be involved in the activation of carcinogenic hydroxylamines. This enzyme also shows activity towards p-nitrophenol and N-hydroxy-2-acetylamino-fluorene (N-OH-2AAF). SULT1C1 is expressed as a 1.4-kb mRNA in adult human stomach, kidney, and thyroid, and in fetal kidney and liver. By functional characterization of recombinant protein, it has been shown that SULT1C1 catalyzes the sulfonation of p-nitrophenol and N-hydroxy-2-acetylaminofluorene, but not dopamine, 17-beta-estradiol, or dehydroepiandrosterone.