

**SULT1B1 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP16645b**

**Specification**

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**SULT1B1 Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O43704</a>
Other Accession	<a href="#">NP_055280.2</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	34899
Antigen Region	191-219

**SULT1B1 Antibody (C-term) - Additional Information**

**Gene ID** 27284

**Other Names**

Sulfotransferase family cytosolic 1B member 1, ST1B1, Sulfotransferase 1B1, 282-, Sulfotransferase 1B2, ST1B2, Thyroid hormone sulfotransferase, SULT1B1, ST1B2, SULT1B2

**Target/Specificity**

This SULT1B1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 191-219 amino acids from the C-terminal region of human SULT1B1.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**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**

SULT1B1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**SULT1B1 Antibody (C-term) - Protein Information**

**Name** SULT1B1

**Synonyms** ST1B2 {ECO:0000303|PubMed:9443824}, SULT

**Function** Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the sulfate conjugation of dopamine, small phenols such as 1-naphthol and p-nitrophenol and thyroid hormones, including 3,3'-diiodothyronine, triiodothyronine (T3) and reverse triiodothyronine (rT3) (PubMed:[28084139](#), PubMed:[9443824](#), PubMed:[9463486](#)). May play a role in gut microbiota-host metabolic interaction. O-sulfonates 4-ethylphenol (4-EP), a dietary tyrosine-derived metabolite produced by gut bacteria. The product 4-EPs crosses the blood-brain barrier and may negatively regulate oligodendrocyte maturation and myelination, affecting the functional connectivity of different brain regions associated with the limbic system (PubMed:[35165440](#)).

#### Cellular Location

Cytoplasm

#### Tissue Location

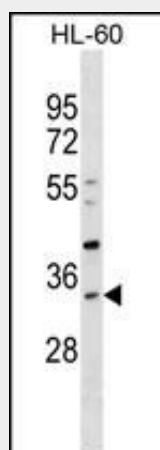
Highly expressed in the liver, peripheral blood leukocytes, colon (mucosal lining), small intestine (jejunum) and spleen. A lesser expression was observed in the lung, placenta and thymus.

### SULT1B1 Antibody (C-term) - Protocols

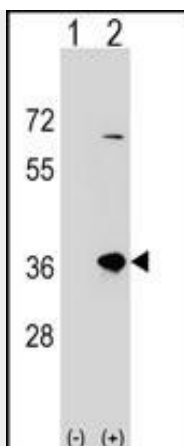
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### SULT1B1 Antibody (C-term) - Images



SULT1B1 Antibody (C-term) (Cat. #AP16645b) western blot analysis in HL-60 cell line lysates (35ug/lane). This demonstrates the SULT1B1 antibody detected the SULT1B1 protein (arrow).



Western blot analysis of SULT1B1 (arrow) using rabbit polyclonal SULT1B1 Antibody (C-term) (Cat. #AP16645b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the SULT1B1 gene.

#### **SULT1B1 Antibody (C-term) - Background**

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. However, the total genomic length of this gene is greater than that of other SULT1 genes.

#### **SULT1B1 Antibody (C-term) - References**

Ross, C.J., et al. Nat. Genet. 41(12):1345-1349(2009)  
Saito, A., et al. J. Hum. Genet. 54(6):317-323(2009)  
Allali-Hassani, A., et al. PLoS Biol. 5 (5), E97 (2007) :  
Dombrovski, L., et al. Proteins 64(4):1091-1094(2006)  
Meinl, W., et al. Biochem. Biophys. Res. Commun. 288(4):855-862(2001)