

**Anti-SULT2B1 Picoband Antibody**  
**Catalog # ABO12508****Specification**

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**Anti-SULT2B1 Picoband Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IHC-P              |
| Primary Accession | <a href="#">O00204</a> |
| Host              | Rabbit                 |
| Reactivity        | Human, Rat             |
| Clonality         | Polyclonal             |
| Format            | Lyophilized            |

**Description**

Rabbit IgG polyclonal antibody for Sulfotransferase family cytosolic 2B member 1(SULT2B1) detection. Tested with WB, IHC-P in Human;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-SULT2B1 Picoband Antibody - Additional Information**

**Gene ID** 6820

**Other Names**

Sulfotransferase family cytosolic 2B member 1, ST2B1, Sulfotransferase 2B1, 2.8.2.2, Alcohol sulfotransferase, Hydroxysteroid sulfotransferase 2, SULT2B1, HSST2

**Calculated MW**

41308 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, By Heat<br><br>Western blot, 0.1-0.5 µg/ml, Human, Rat<br>

**Subcellular Localization**

Cytoplasm. Microsome. Nucleus. Phosphorylation of Ser-348 is required for translocation to the nucleus.

**Tissue Specificity**

Expressed highly in placenta, prostate and trachea and lower expression in the small intestine and lung. .

**Protein Name**

Sulfotransferase family cytosolic 2B member 1

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence in the middle region of human SULT2B1

(190-218aa FDHIKGWLRMKGKDNFLFITYEELQQDLQ), different from the related mouse sequence by six amino acids, and from the related rat sequence by five amino acids.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Anti-SULT2B1 Picoband Antibody - 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:<a href="http://www.uniprot.org/citations/12145317" target="\_blank">12145317</a>, PubMed:<a href="http://www.uniprot.org/citations/19589875" target="\_blank">19589875</a>). Catalyzes sulfation of the 3beta-hydroxyl groups of steroids, such as, pregnenolone and dehydroepiandrosterone (DHEA) (PubMed:<a href="http://www.uniprot.org/citations/12145317" target="\_blank">12145317</a>, PubMed:<a href="http://www.uniprot.org/citations/16855051" target="\_blank">16855051</a>, PubMed:<a href="http://www.uniprot.org/citations/21855633" target="\_blank">21855633</a>, PubMed:<a href="http://www.uniprot.org/citations/9799594" target="\_blank">9799594</a>). Preferentially sulfonates cholesterol, while it also has significant activity with pregnenolone and DHEA (PubMed:<a href="http://www.uniprot.org/citations/12145317" target="\_blank">12145317</a>, PubMed:<a href="http://www.uniprot.org/citations/21855633" target="\_blank">21855633</a>). Plays a role in epidermal cholesterol metabolism and in the regulation of epidermal proliferation and differentiation (PubMed:<a href="http://www.uniprot.org/citations/28575648" target="\_blank">28575648</a>).

**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)

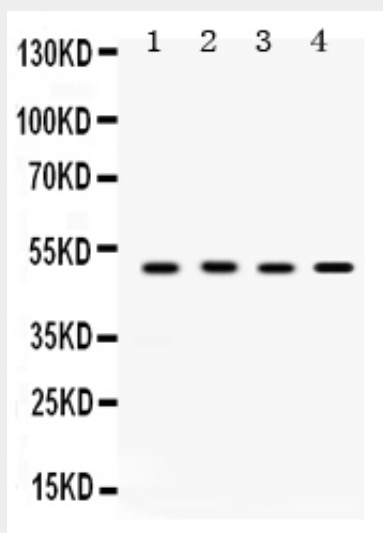
**Anti-SULT2B1 Picoband Antibody - Protocols**

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

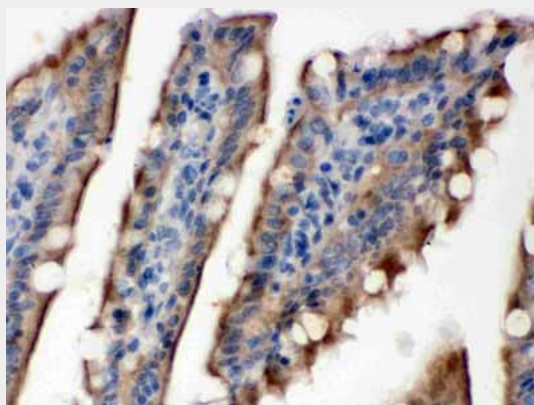
- [Western Blot](#)
- [Blocking Peptides](#)

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

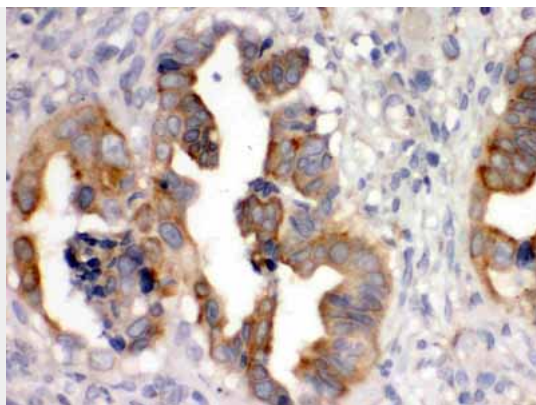
## Anti-SULT2B1 Picoband Antibody - Images



Anti- SULT2B1 Picoband antibody, ABO12508, Western blotting  
All lanes: Anti SULT2B1 (ABO12508) at 0.5ug/ml  
Lane 1: Rat Testis Tissue Lysate at 50ug  
Lane 2: A431 Whole Cell Lysate at 40ug  
Lane 3: HELA Whole Cell Lysate at 40ug  
Lane 4: MCF-7 Whole Cell Lysate at 40ug  
Predicted bind size: 48KD  
Observed bind size: 48KD



Anti- SULT2B1 Picoband antibody, ABO12508, IHC(P)  
IHC(P): Rat Intestine Tissue



Anti- SULT2B1 Picoband antibody, ABO12508, IHC(P)IHC(P): Human Intestinal Cancer Tissue

#### **Anti-SULT2B1 Picoband Antibody - Background**

Sulfotransferase family cytosolic 2B member 1 is an enzyme that in humans is encoded by the SULT2B1 gene. 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. And this gene sulfates dehydroepiandrosterone but not 4-nitrophenol, a typical substrate for the phenol and estrogen sulfotransferase subfamilies. Two alternatively spliced variants that encode different isoforms have been described.