

**Anti-SULT2A1 Picoband Antibody**  
Catalog # ABO12507**Specification****Anti-SULT2A1 Picoband Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">Q06520</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Bile salt sulfotransferase(SULT2A1) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

**Reconstitution**

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

**Anti-SULT2A1 Picoband Antibody - Additional Information**

**Gene ID** 6822

**Other Names**

Bile salt sulfotransferase, 2.8.2.14, Dehydroepiandrosterone sulfotransferase, DHEA-ST, Hydroxysteroid Sulfotransferase, HST, ST2, ST2A3, Sulfotransferase 2A1, ST2A1, SULT2A1, HST, STD

**Calculated MW**

33780 MW KDa

**Application Details**

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

**Subcellular Localization**

Cytoplasm.

**Tissue Specificity**

Liver, adrenal and at lower level in the kidney. Is present in human fetus in higher level in the adrenal than the liver and the kidney.

**Protein Name**

Bile salt sulfotransferase

**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 at the C-terminus of human SULT2A1 (253-285aa

DWKNHFTVAQAEDFDKLFQEKMADLPRELFWE), different from the related mouse sequence by seven amino acids, and from the related rat sequence by eight amino acids.

#### Purification

Immunogen affinity purified.

#### Cross Reactivity

No cross reactivity with other proteins

#### Storage

**At -20°C for one year. After r°Constitution, 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-SULT2A1 Picoband Antibody - Protein Information

**Name** SULT2A1

**Synonyms** HST, STD

#### Function

Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the sulfonation of steroids and bile acids in the liver and adrenal glands. Mediates the sulfation of a wide range of steroids and sterols, including pregnenolone, androsterone, DHEA, bile acids, cholesterol and as well many xenobiotics that contain alcohol and phenol functional groups (PubMed:<a href="http://www.uniprot.org/citations/14573603" target="\_blank">14573603</a>, PubMed:<a href="http://www.uniprot.org/citations/18042734" target="\_blank">18042734</a>, PubMed:<a href="http://www.uniprot.org/citations/19589875" target="\_blank">19589875</a>, PubMed:<a href="http://www.uniprot.org/citations/21187059" target="\_blank">21187059</a>, PubMed:<a href="http://www.uniprot.org/citations/2268288" target="\_blank">2268288</a>, PubMed:<a href="http://www.uniprot.org/citations/29671343" target="\_blank">29671343</a>, PubMed:<a href="http://www.uniprot.org/citations/7678732" target="\_blank">7678732</a>, PubMed:<a href="http://www.uniprot.org/citations/7854148" target="\_blank">7854148</a>). Sulfonation increases the water solubility of most compounds, and therefore their renal excretion, but it can also result in bioactivation to form active metabolites. Plays an important role in maintaining steroid and lipid homeostasis (PubMed:<a href="http://www.uniprot.org/citations/14573603" target="\_blank">14573603</a>, PubMed:<a href="http://www.uniprot.org/citations/19589875" target="\_blank">19589875</a>, PubMed:<a href="http://www.uniprot.org/citations/21187059" target="\_blank">21187059</a>). Plays a key role in bile acid metabolism (PubMed:<a href="http://www.uniprot.org/citations/2268288" target="\_blank">2268288</a>). In addition, catalyzes the metabolic activation of potent carcinogenic polycyclic arylmethanols (By similarity).

#### Cellular Location

Cytoplasm.

#### Tissue Location

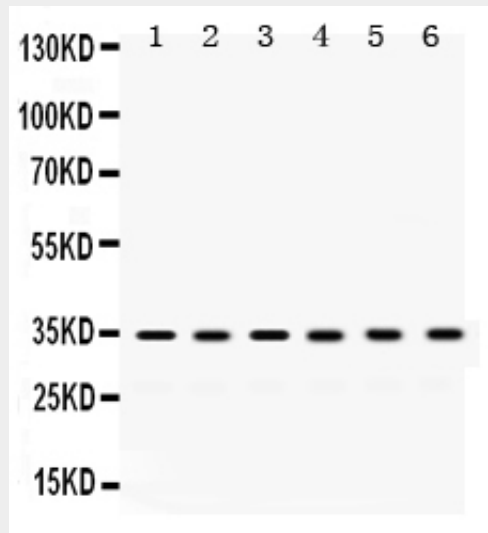
Liver, adrenal and at lower level in the kidney. Is present in human fetus in higher level in the adrenal than the liver and the kidney

### Anti-SULT2A1 Picoband Antibody - Protocols

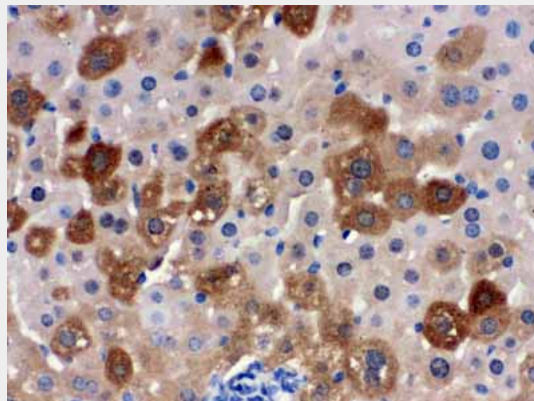
Provided below are standard protocols that you may find useful for product applications.

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

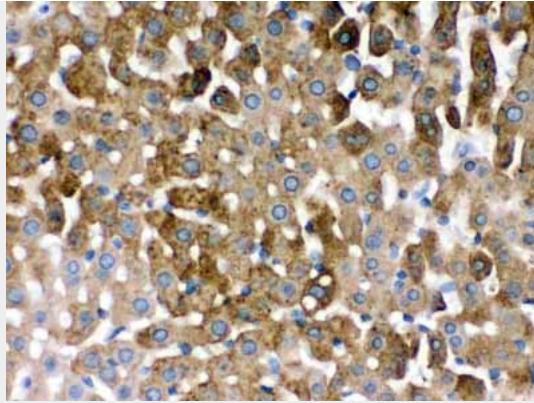
#### Anti-SULT2A1 Picoband Antibody - Images



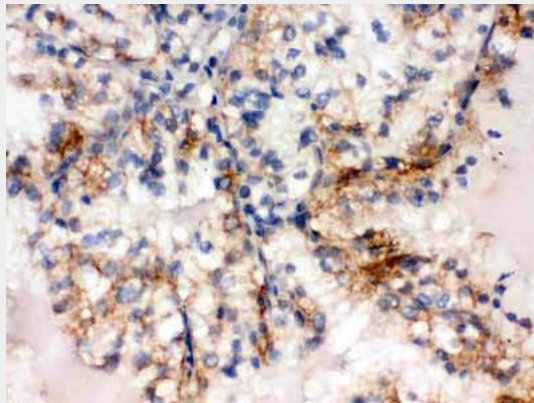
Anti- SULT2A1 Picoband antibody, ABO12507, Western blotting  
All lanes: Anti SULT2A1 (ABO12507) at 0.5ug/ml  
Lane 1: Rat Liver Tissue Lysate at 50ug  
Lane 2: Rat Kidney Tissue Lysate at 50ug  
Lane 3: Mouse Liver Tissue Lysate at 50ug  
Lane 4: Mouse Kidney Tissue Lysate at 50ug  
Lane 5: HELA Whole Cell Lysate at 40ug  
Lane 6: SW620 Whole Cell Lysate at 40ug  
Predicted bind size: 34KD  
Observed bind size: 34KD



Anti- SULT2A1 Picoband antibody, ABO12507, IHC(P)  
IHC(P): Mouse Liver Tissue



Anti- SULT2A1 Picoband antibody, ABO12507, IHC(P)IHC(P): Rat Liver Tissue



Anti- SULT2A1 Picoband antibody, ABO12507, IHC(P)IHC(P): Human Renal Cancer Tissue

#### **Anti-SULT2A1 Picoband Antibody - Background**

Bile salt sulfotransferase, also known as hydroxysteroid sulfotransferase (HST) or sulfotransferase 2A1 (ST2A1), is an enzyme that in humans is encoded by the SULT2A1 gene. It is mapped to 19q13.3. This gene encodes a member of the sulfotransferase family. Sulfotransferases aid in the metabolism of drugs and endogenous compounds by converting these substances into more hydrophilic water-soluble sulfate conjugates that can be easily excreted. This protein catalyzes the sulfation of steroids and bile acids in the liver and adrenal glands, and may have a role in the inherited adrenal androgen excess in women with polycystic ovary syndrome.