10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-SULT2A1 Picoband Antibody

Catalog # ABO12507

Specification

Anti-SULT2A1 Picoband Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	Q06520
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 Na2HPO4, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the C-terminus of human SULT2A1 (253-285aa

DWKNHFTVAQAEDFDKLFQEKMADLPRELFPWE), 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:14573603, PubMed:18042734, PubMed:19589875, PubMed:21187059, PubMed:2268288, PubMed:29671343, PubMed:7678732, PubMed:7854148). 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 maintening steroid and lipid homeostasis (PubMed:14573603, PubMed:19589875, PubMed:21187059). Plays a key role in bile acid metabolism (PubMed:2268288). 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.

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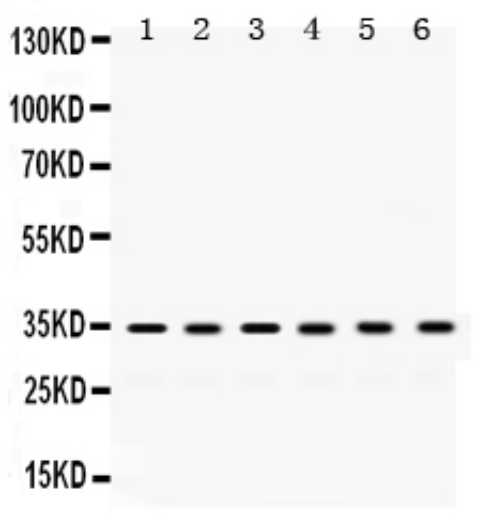
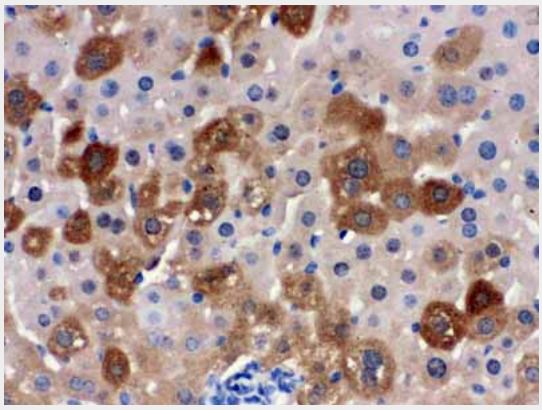
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-SULT2A1 Picoband Antibody - Images



Anti- SULT2A1 Picoband antibody, ABO12507, Western blottingAll lanes: Anti SULT2A1 (ABO12507) at 0.5ug/mlLane 1: Rat Liver Tissue Lysate at 50ugLane 2: Rat Kidney Tissue Lysate at 50ugLane 3: Mouse Liver Tissue Lysate at 50ugLane 4: Mouse Kidney Tissue Lysate at 50ugLane 5: HELA Whole Cell Lysate at 40ugLane 6: SW620 Whole Cell Lysate at 40ugPredicted bind size: 34KDObserved bind size: 34KD



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

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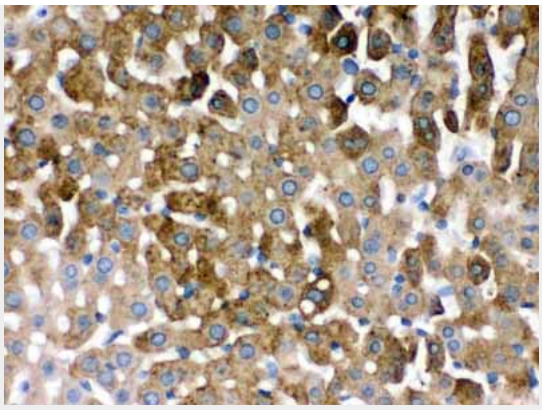
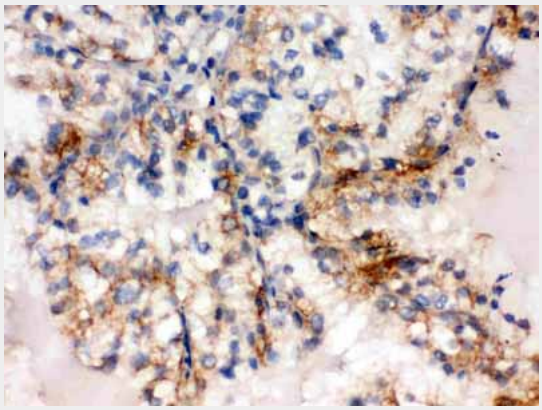


Anti- SULT2A1 Picoband antibody, ABO12507, IHC(P)IHC(P): Rat Liver Tissue



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.