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Anti-SULT2B1 Picoband Antibody
Catalog # ABO12508

Specification

Anti-SULT2B1 Picoband Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	O00204
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

Western blot, 0.1-0.5 µg/ml, Human, Rat

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 Na2HPO4, 0.05mg NaN3.

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 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-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:12145317, PubMed:19589875). Catalyzes sulfation of the 3beta-hydroxyl groups of steroids, such as, pregnenolone and dehydroepiandrosterone (DHEA) (PubMed:12145317, PubMed:16855051, PubMed:21855633, PubMed:9799594). Preferentially sulfonates cholesterol, while it also has significant activity with pregnenolone and DHEA (PubMed:12145317, PubMed:21855633). Plays a role in epidermal cholesterol metabolism and in the regulation of epidermal proliferation and differentiation (PubMed:28575648).

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)

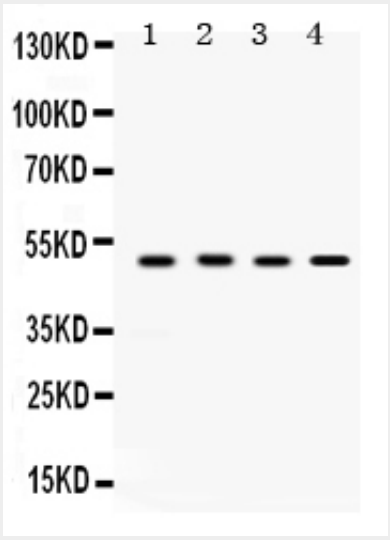
Anti-SULT2B1 Picoband Antibody - Protocols

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

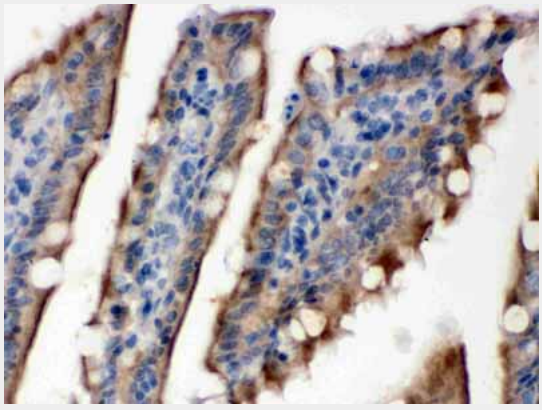
- Western Blot
- Blocking Peptides

- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-SULT2B1 Picoband Antibody - Images



Anti- SULT2B1 Picoband antibody, ABO12508, Western blottingAll lanes: Anti SULT2B1 (ABO12508) at 0.5ug/mlLane 1: Rat Testis Tissue Lysate at 50ugLane 2: A431 Whole Cell Lysate at 40ugLane 3: HELA Whole Cell Lysate at 40ugLane 4: MCF-7 Whole Cell Lysate at 40ugPredicted bind size: 48KDObserved bind size: 48KD



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

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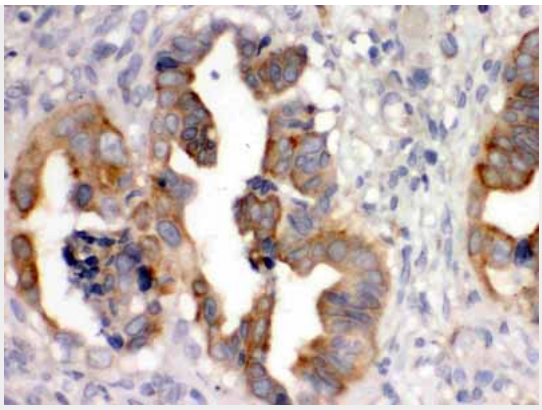

Anti- SULT2B1 Picoband antibody, ABO12508, IHC(P)IHC(P): Human Intestinal Cancer Tissue

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.