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Anti-SULT2B1 Picoband Antibody

Catalog # ABO12508

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.

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
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Human, Rat, By Heat Western blot, 0.1-0.5 □g/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. .
Source	Eukaryota
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.

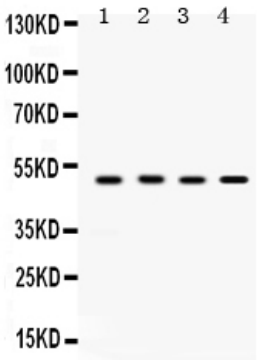
Protein Information

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)

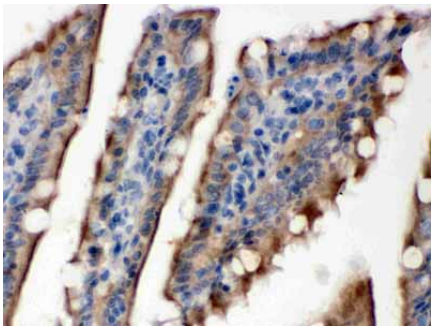
Background

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.

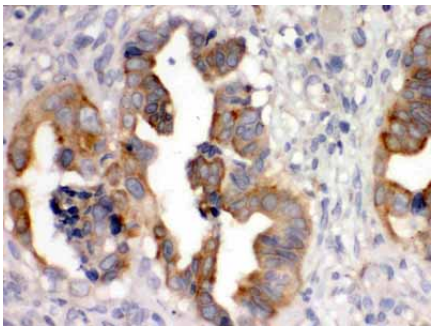
Images



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



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