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SULT2A1 Antibody

Rabbit mAb
Catalog # AP91808

Product Information

Application	WB, IHC, IF, FC, ICC, IHF
Primary Accession	Q06520
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	HST; ST2; STD; hSTa; DHEAS; ST2A1; ST2A3; DHEA-ST;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	33780

Additional Information

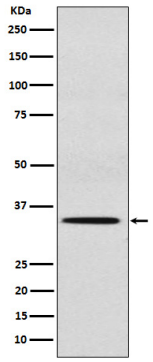
Dilution	WB 1:500~1:2000 IHC 1:100~1:500 ICC/IF 1:50~1:200 FC 1:80
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human SULT2A1
Description	Catalyzes the sulfation of steroids and bile acids in the liver and adrenal glands.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

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

Images



Western blot analysis of SULT2A1 expression in HepG2 cell lysate.