SULT2B1 (H-70): sc-67102



The Power to Question

BACKGROUND

The soluble sulfotransferases contribute to the elimination of xenobiotics, the activation of procarcinogens and the regulation of hormones. Members of the three groups comprising this superfamily show selectivity to certain substrate compounds. SULT1 sulfotransferases exhibit N-sulfating activities of carcinogenic heterocyclic amines and are selective toward phenols, whereas SULT2 enzymes prefer hydroxysteroids, and SULT3 family members are selective for N-substituted aryl and alicyclic compounds. SULT2A1 catalyzes the sulfonation of procarcinogen xenobiotics, hydroxysteroids and bile acids, and is highly expressed in adrenal and liver tissues. SULT2A1 plays a role in hepatic cholesterol homeostasis. SULT2B1 consists of two isoforms, SULT2B1a and SULT2B1b, which are transcribed from the same gene by alternative splicing of their first exons. Both isoforms are highly selective for the sulphation of 3 β -hydroxysteroids, such as pregnenolone, epiandrosterone, DHEA and androstenediol. SULT2B1b is expressed in prostate, skin, placenta and lung tissues.

REFERENCES

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- Meinl, W. and Glatt, H. 2001. Structure and localization of the human SULT1B1 gene: neighborhood to SULT1E1 and a SULT1D pseudogene. Biochem. Biophys. Res. Commun. 288: 855-862.
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CHROMOSOMAL LOCATION

Genetic locus: SULT2B1 (human) mapping to 19q13.3; Sult2b1 (mouse) mapping to 7 B3.

SOURCE

SULT2B1 (H-70) is a rabbit polyclonal antibody raised against amino acids 296-365 mapping at the C-terminus of SULT2B1 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

SULT2B1 (H-70) is recommended for detection of SULT2B1 isoforms 1 and 2 of mouse and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

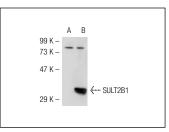
Suitable for use as control antibody for SULT2B1 siRNA (h): sc-44399, SULT2B1 siRNA (m): sc-44400, SULT2B1 shRNA Plasmid (h): sc-44399-SH, SULT2B1 shRNA Plasmid (m): sc-44400-SH, SULT2B1 shRNA (h) Lentiviral Particles: sc-44399-V and SULT2B1 shRNA (m) Lentiviral Particles: sc-44400-V.

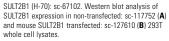
Molecular Weight of mouse and rat SULT2B1: 30 kDa.

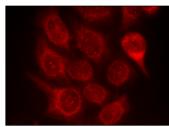
Molecular Weight of human SULT2B1: 41 kDa.

Positive Controls: rat kidney extract: sc-2394, SULT2B1 (m2): 293T Lysate: sc-127610 or mouse small intestine extract: sc-364252.

DATA







SULT2B1 (H-70): sc-67102. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **SULT2B1 (A-3): sc-166423** or **SULT2B1 (C-1): sc-166346**, our highly recommended monoclonal alternatives to SULT2B1 (H-70).

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