

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Cytosolic Sulfotransferase 1B1/SULT1B1 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) SULT1A1, rhSULT1C1, or rhSULT1E1 is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 724429
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human Cytosolic Sulfotransferase 1B1/SULT1B1 Leu2-Ile296 Accession # O43704
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

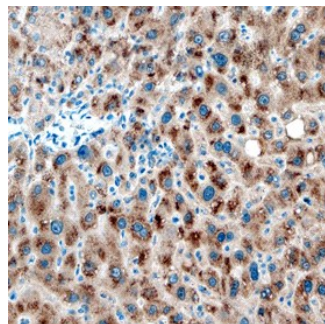
## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
<b>Immunohistochemistry</b>	8-25 µg/mL	See Below

## DATA

### Immunohistochemistry



**Cytosolic Sulfotransferase 1B1/SULT1B1 in Human Liver.** Cytosolic Sulfotransferase 1B1/SULT1B1 was detected in immersion fixed paraffin-embedded sections of human liver using Mouse Anti-Human Cytosolic Sulfotransferase 1B1/SULT1B1 Monoclonal Antibody (Catalog # MAB5959) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm of hepatocytes. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

Cytosolic Sulfotransferases are a family of phase II drug-metabolizing enzymes that catalyze the sulfation of many endogenous and xenobiotic substrates (1-3). They have important functions in the metabolism of many endogenous compounds including steroids, bile acids, thyroid hormones and monoamine neurotransmitters. They are distributed throughout the body and serve to inactivate and increase water-solubility of xenobiotics and therapeutic drugs. Cytosolic sulfotransferases are distinct from Golgi resident sulfotransferases by lacking N-terminal signal-anchorage domains and residing only in the cytoplasm. SULT1B1 is primarily expressed in the liver, peripheral blood leukocytes, colon, spleen and small intestine and can sulfate thyroid hormones and small phenols (4). Human SULT1B1 shares 72% amino acid sequence identity with mouse SULT1B1.

### References:

1. Falany, C. N. (1997) *FASEB J.* **11**:206.
2. Gamage, N. U. *et al.* (2006) *Toxicol. Sci.* **90**:5.
3. Allali-Hassani, A. *et al.* (2007) *PLoS Biol.* **5**:e97.
4. Wang, J. *et al.* (1998) *Mol. Pharmacol.* **53**:274.