Human Cytosolic Sulfotransferase 1B1/SULT1B1 Alexa Fluor® 488-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF5959G
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Cytosolic Sulfotransferase 1B1/SULT1B1 in direct ELISAs and Western blots. In direct ELISAs, approximately 5% cross-reactivity with recombinant human (rh) SULT1A1 and rhSULT1A3 is observed and less than 2% cross&#x
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human Cytosolic Sulfotransferase 1B1/SULT1B1 Leu2-Ile296 Accession # O43704
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.*

Neutralization	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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 shows 72.3% amino acid sequence identity to mouse SULT1B1.

PRODUCT SPECIFIC NOTICES

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