

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Cytosolic Sulfotransferase 1A1/SULT1A1 in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant human SULT1E1 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Cytosolic Sulfotransferase 1A1/SULT1A1 Glu2-Leu295 Accession # P50225
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	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 catalyze the sulfonation of many hormones, neurotransmitters, drugs, and xenobiotic compounds. They are distinct from Golgi resident sulfotransferases by the absence of transmembrane domains and are located in the cytoplasm (1, 2). SULT1A1 is one of two phenol sulfotransferases with thermostable enzyme activity (2). The enzyme is more specific for sulfonation on catecholamines, phenolic drugs and neurotransmitters (3). Because of its ability to modify diverse promutagen and procarcinogen xenobiotics, it is implicated in a range of cancers (2). The crystal structure of the enzyme reveals that its active site is flexible and can accommodate diverse hydrophobic substrates with varying sizes, shapes and flexibility (4).

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