

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human SULT4A1 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) SULT1A1, rhSULT2A1, and rhSULT1E1 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human SULT4A1 isoform 1 Ala2-Leu284 Accession # Q9BR01
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.
Immunohistochemistry	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

SULT4A1 (Cytosolic Sulfotransferase 4A1; also BR-STL1/Brain sulfotransferase-like protein) is a 33-36 kDa member of the sulfotransferase 4 family of enzymes. SULT4A1 message is widely expressed. However, it appears to be translated only in brain. SULT4A1 is very unusual in that it is the only SULT that shows minimal activity on synthetic laboratory substrates. Instead, it acts on catecholamines and T4 in a manner that may not involve sulfonation. Human SULT4A1 is 284 amino acids (aa) in length. A weak PAPS binding site is found between aa 246-254. There are two potential isoforms; one that shows a 13 aa substitution for aa 248-284 and a second that contains a 48 aa substitution for aa 202 - 247. Full-length human SULT4A1 is 98% aa identical to mouse SULT4A1.

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