

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Cytosolic Sulfotransferase 4A1/SULT4A1 in direct ELISAs and Western blots. No cross-reactivity with recombinant human (rh) SULT1A1, rhSULT1A3, rhSULT1B1, rhSULT1E1, rhSULT2A1, or rhSULT2B1 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 634630
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Cytosolic Sulfotransferase 4A1/SULT4A1 Ala2-Lys284 Accession # Q9BR01
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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.

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 SULT4A1 (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. SULT4A 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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