10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SULT1B1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16645b

Product Information

Application	WB, E
Primary Accession	O43704
Other Accession	NP_055280.2
Reactivity	Human
Predicted	Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB36181
Calculated MW	34899
Antigen Region	191-219

Additional Information

Gene ID	27284
Other Names	Sulfotransferase family cytosolic 1B member 1, ST1B1, Sulfotransferase 1B1, 282-, Sulfotransferase 1B2, ST1B2, Thyroid hormone sulfotransferase, SULT1B1, ST1B2, SULT1B2
Target/Specificity	This SULT1B1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 191-219 amino acids from the C-terminal region of human SULT1B1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SULT1B1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SULT1B1
Synonyms	ST1B2 {ECO:0000303|PubMed:9443824}, SULT

Function	Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the sulfate conjugation of dopamine, small phenols such as 1-naphthol and p-nitrophenol and thyroid hormones, including 3,3'-diiodothyronine, triidothyronine (T3) and reverse triiodothyronine (rT3) (PubMed:28084139, PubMed:9443824, PubMed:9463486). May play a role in gut microbiota-host metabolic interaction. O-sulfonates 4-ethylphenol (4-EP), a dietary tyrosine- derived metabolite produced by gut bacteria. The product 4-EPS crosses the blood-brain barrier and may negatively regulate oligodendrocyte maturation and myelination, affecting the functional connectivity of different brain regions associated with the limbic system (PubMed:35165440).
Cellular Location	Cytoplasm
Tissue Location	Highly expressed in the liver, peripheral blood leukocytes, colon (mucosal lining), small intestine (jejunum) and spleen. A lesser expression was observed in the lung, placenta and thymus.

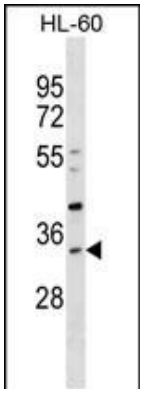
Background

Sulfotransferase enzymes catalyze the sulfate conjugation of many hormones, neurotransmitters, drugs, and xenobiotic compounds. These cytosolic enzymes are different in their tissue distributions and substrate specificities. The gene structure (number and length of exons) is similar among family members. However, the total genomic length of this gene is greater than that of other SULT1 genes.

References

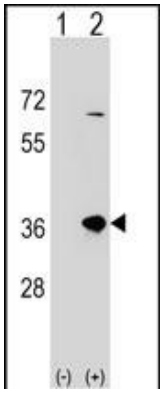
Ross, C.J., et al. Nat. Genet. 41(12):1345-1349(2009)
Saito, A., et al. J. Hum. Genet. 54(6):317-323(2009)
Allali-Hassani, A., et al. PLoS Biol. 5 (5), E97 (2007) :
Dombrovski, L., et al. Proteins 64(4):1091-1094(2006)
Meinl, W., et al. Biochem. Biophys. Res. Commun. 288(4):855-862(2001)

Images



SULT1B1 Antibody (C-term) (Cat. #AP16645b) western blot analysis in HL-60 cell line lysates (35ug/lane).This demonstrates the SULT1B1 antibody detected the SULT1B1 protein (arrow).

Western blot analysis of SULT1B1 (arrow) using rabbit polyclonal SULT1B1 Antibody (C-term) (Cat. #AP16645b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the SULT1B1 gene.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.