

SULT4A1b Antibody (C-Term) Blocking Peptide
Synthetic peptide
Catalog # BP2601a**Specification**

SULT4A1b Antibody (C-Term) Blocking Peptide - Product Information

Primary Accession [O9BR01](#)
Other Accession [NP_055166](#)

SULT4A1b Antibody (C-Term) Blocking Peptide - Additional Information

Gene ID 25830

Other Names

Sulfotransferase 4A1, ST4A1, 282-, Brain sulfotransferase-like protein, hBR-STL, hBR-STL-1, Nervous system sulfotransferase, NST, SULT4A1, SULTX3

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP2601a](/product/products/AP2601a) was selected from the C-Term region of human SULT4A1b. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SULT4A1b Antibody (C-Term) Blocking Peptide - Protein Information

Name SULT4A1

Synonyms SULTX3

Function

Atypical sulfotransferase family member with very low affinity for 3'-phospho-5'-adenylyl sulfate (PAPS) and very low catalytic activity towards L-triiodothyronine, thyroxine, estrone, p-nitrophenol, 2-naphthylamine, and 2-beta-naphthol. May have a role in the metabolism of drugs and neurotransmitters in the CNS.

Cellular Location

Cytoplasm.

Tissue Location

Highly expressed in the cerebral cortex and frontal lobe, slightly less in the cerebellum, occipital and temporal lobes, relatively low in the medulla and putamen, and lowest in the spinal cord. No expression detected in the pancreas (PubMed:10698717). Highly expressed in fetal brain and occipital lobe, slightly less in the whole brain, frontal lobe, hippocampus, and lung, very low expression in cerebellum, medulla oblongata, temporal lobe, testis, kidney and appendix (PubMed:12039030).

SULT4A1b Antibody (C-Term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

SULT4A1b Antibody (C-Term) Blocking Peptide - Images**SULT4A1b Antibody (C-Term) Blocking Peptide - 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. SULT4A1b is selectively expressed in brain tissue. Isoform b includes an alternate segment, compared to isoform a, that causes a frameshift. The resulting protein (isoform b) has a distinct and shorter C-terminus when compared to isoform a.

SULT4A1b Antibody (C-Term) Blocking Peptide - References

Liyou, N.E., et al., J. Histochem. Cytochem. 51(12):1655-1664 (2003). Weinshilboum, R.M., et al., FASEB J. 11(1):3-14 (1997). Glatt, H., et al., Mutat. Res. 482 (1-2), 27-40 (2001). Sakakibara, Y., et al., Gene 285 (1-2), 39-47 (2002). Glatt, H., et al., Toxicol. Lett. 112-113, 341-348 (2000).