

**SULT4A1a/b Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP2610a****Specification**

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**SULT4A1a/b Antibody (N-term) Blocking Peptide - Product Information**

Primary Accession [O9BR01](#)  
Other Accession [NP\\_795343](#)

**SULT4A1a/b Antibody (N-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 [AP2610a](/product/products/AP2610a) was selected from the N-term region of human SULT4A1a/b. 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.

**SULT4A1a/b Antibody (N-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).

**SULT4A1a/b Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**SULT4A1a/b Antibody (N-term) Blocking Peptide - Images****SULT4A1a/b Antibody (N-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. SULT4A1 isoforms a and b are selectively expressed in brain tissue. Isoform a is the predominant of the two isoforms of this protein. 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.

**SULT4A1a/b Antibody (N-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).