

SULT4A1a/b Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2610a**Specification**

SULT4A1a/b Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	O9BR01
Other Accession	NP_795343
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	33085
Antigen Region	1-30

SULT4A1a/b Antibody (N-term) - 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

This SULT4A1a/b antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human SULT4A1a/b.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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

SULT4A1a/b Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

SULT4A1a/b Antibody (N-term) - 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

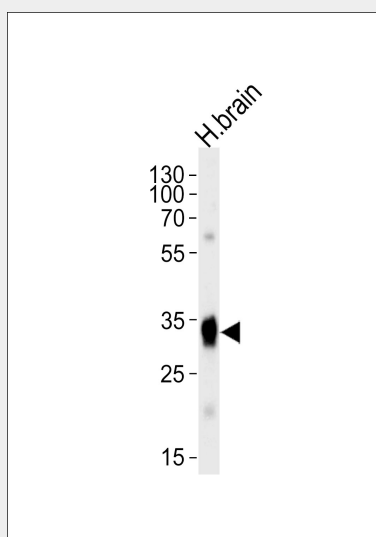
Highly expressed in the cerebral cortex and frontal lobe, slightly less in the cerebellum, occipital and temporal lobes, relatively low in the medulla and putamen, and lowest in the spinal cord. No expression detected in the pancreas (PubMed:10698717). Highly expressed in fetal brain and occipital lobe, 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) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SULT4A1a/b Antibody (N-term) - Images



Western blot analysis of lysate from human brain tissue lysate, using SULT4A1a/b Antibody (M1)(Cat. #AP2610a). AP2610a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug per lane.

SULT4A1a/b Antibody (N-term) - 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) - 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).