



Rabbit Anti-SULT4A1 antibody

SL11763R

Product Name:	SULT4A1
Chinese Name:	脑磺基转移酶样蛋白4A1抗体
Alias:	BR STL 1; Brain sulfotransferase like protein; Brain sulphotransferase like; BRSTL1; hBR STL 1; hBR STL; Nervous system cytosolic sulfotransferase; Nervous system sulfotransferase; NST; Sulfotransferase 4A1; Sulfotransferase family 4A member 1; Sulfotransferase related protein; SULTX3; ST4A1_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	33kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human SULT4A1:221-284/284
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Sulfation is an essential conjugation reaction that increases the water solubility of many compounds, thereby influencing their renal excretion and also resulting in the formation of active metabolites. SULT4A1 (sulfotransferase family 4A, member 1), whose alternative names include brain sulfotransferase-like protein, nervous system

sulfotransferase, NST, SULTX3, hBR-STL-1, BRSTL1, BR-STL-1, MGC40032 and DJ388M5.3, is a 284 amino acid protein showing cytoplasmic localization. As a member of the sulfotransferase 1 family, SULT4A1 plays a role in elimination of xenobiotics, activation of procarcinogens and regulation of hormones. SULT4A1 is highly expressed in cerebral cortex and frontal lobe, with lower expression in cerebellum, temporal and occipital lobes. Two SULT4A1 isoforms exist to alternative splicing events. The gene encoding SULT4A1 maps to human chromosome 22q13.2, a region which has been implicated in predisposition to schizophrenia.

Function:

SULT4A1 is a member of the sulfotransferase family. It is a brain-specific sulfotransferase believed to be involved in the metabolism of neurotransmitters. It may catalyze the sulfate conjugation of many drugs, xenobiotic compounds, hormones, and neurotransmitters. Polymorphisms in this gene may be associated with susceptibility to schizophrenia. There are two named isoforms.

Subcellular Location:

Cytoplasmic

Tissue Specificity:

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).

Similarity:

Belongs to the sulfotransferase 1 family.

SWISS:

Q9BR01

Gene ID:

25830

Database links:

[Entrez Gene: 618738](#)Cow

[Entrez Gene: 25830](#)Human

[Entrez Gene: 29859](#)Mouse

[Entrez Gene: 100009444](#)Rabbit

[Entrez Gene: 58953](#)Rat

[Omin: 608359](#)Human

[SwissProt: Q9BR01](#)Human

[SwissProt: P63046](#)Mouse

[SwissProt: P63047](#)Rat

[Unigene: 189810](#)Human

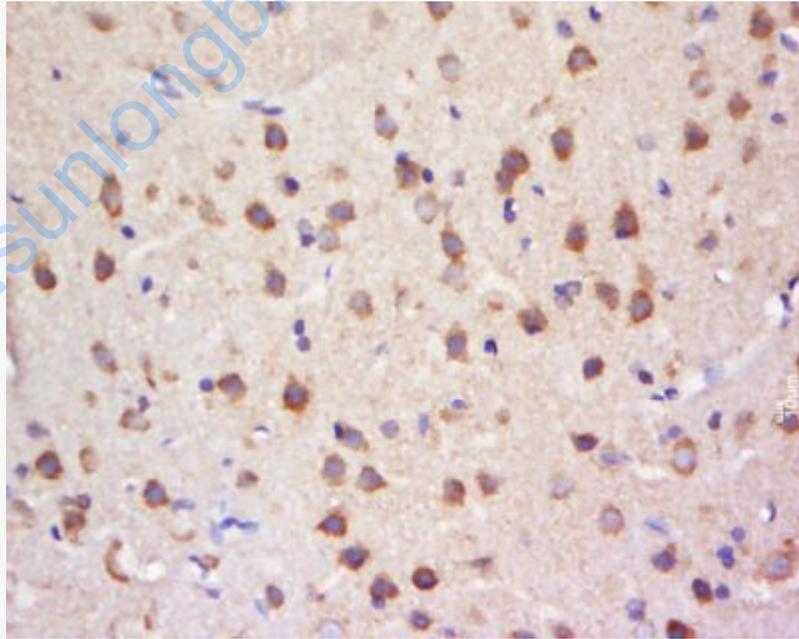
[Unigene: 248796](#)Mouse

[Unigene: 162965](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Tissue/cell: Rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer

(normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-SULT4A1 Polyclonal Antibody, Unconjugated(SL11763R) 1:500,
overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and
DAB(C-0010) staining

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