

For Research Use Only

# SULT4A1 Monoclonal antibody

Catalog Number: 66106-1-Ig



## Basic Information

<b>Catalog Number:</b> 66106-1-Ig	<b>GenBank Accession Number:</b> BC022459	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 900 ug/ml	<b>GeneID (NCBI):</b> 25830	<b>CloneNo.:</b> 1B9F6
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q9BR01	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:50-1:500 IF-P 1:200-1:800
<b>Isotype:</b> IgG1	<b>Full Name:</b> sulfotransferase family 4A, member 1	
<b>Immunogen Catalog Number:</b> AG17962	<b>Calculated MW:</b> 284 aa, 33 kDa	
	<b>Observed MW:</b> 33 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF-P, ELISA

**Species Specificity:**  
human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

WB : Human brain, tissue

IHC : mouse brain tissue,

IF-P : mouse brain tissue,

## Background Information

SULT4A1, also named as SULTX3, NST, ST4A1, hBR-STL and hBR-STL-1, belongs to the sulfotransferase 1 family. It may catalyze the sulfate conjugation of many drugs, xenobiotic compounds, hormones, and neurotransmitters. SULT4A1 displays activity towards L-triiodothyronine, thyroxine, estrone, p-nitrophenol, 2-naphtylamine, and 2-naphtol. It may have a role in the sulfation of drugs and neurotransmitters in the CNS. SULT4A1 is a brain-specific sulfotransferase believed to be involved in the metabolism of neurotransmitters. It is a novel cytosolic sulfotransferase that is primarily expressed in the brain.

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

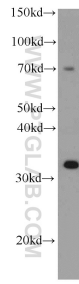
T: 4006900926

E: Proteintech-CN@ptglab.com

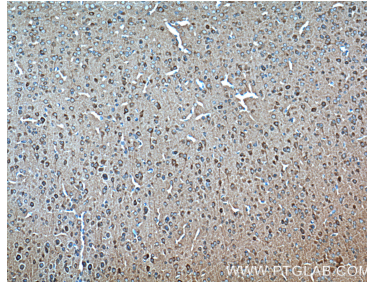
W: ptgcn.com

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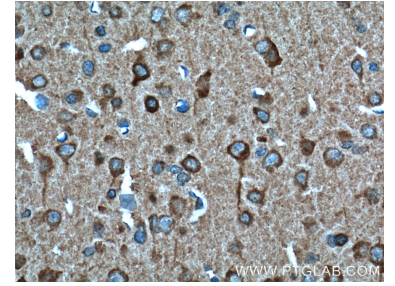
## Selected Validation Data



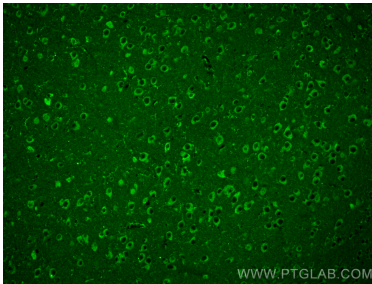
human brain tissue were subjected to SDS PAGE followed by western blot with 66106-1-Ig (SULT4A1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



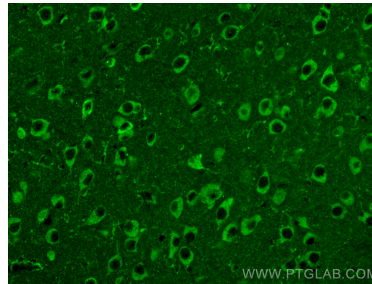
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 66106-1-Ig (SULT4A1 Antibody) at dilution of 1:300 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 66106-1-Ig (SULT4A1 Antibody) at dilution of 1:300 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using SULT4A1 antibody (66106-1-Ig, Clone: 1B9F6) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using SULT4A1 antibody (66106-1-Ig, Clone: 1B9F6) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).