

For Research Use Only

# SULT4A1 Polyclonal antibody

Catalog Number: 12578-1-AP

Featured Product

15 Publications



## Basic Information

<b>Catalog Number:</b> 12578-1-AP	<b>GenBank Accession Number:</b> BC022459	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 750 µg/ml by Nanodrop and 393 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 25830	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IP 0.5-4.0 ug for IP and 1:200-1:1000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> sulfotransferase family 4A, member 1	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 284 aa, 33 kDa	
<b>Immunogen Catalog Number:</b> AG3271	<b>Observed MW:</b> 30-33 kDa	

## Applications

<b>Tested Applications:</b> IP, WB, ELISA	<b>Positive Controls:</b> WB : mouse brain tissue, human brain tissue, rat brain IP : mouse brain tissue,
<b>Cited Applications:</b> IF, IHC, WB	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, mouse, rat, zebrafish	

## 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Claudia Colombrita	26514432	Biochim Biophys Acta	WB
Shu Xiao-Hong XH	22096581	PLoS One	WB, IHC, IF
Patrick L Garcia	29109113	Drug Metab Dispos	WB, IHC

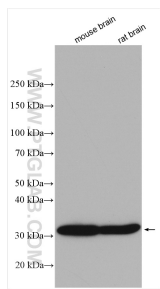
## Storage

**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

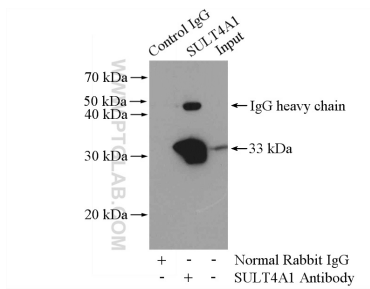
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 12578-1-AP (SULT4A1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP Result of anti-SULT4A1 (IP:12578-1-AP, 4ug; Detection:12578-1-AP 1:300) with mouse brain tissue lysate 4000ug.