

For Research Use Only

# SULT1B1 Recombinant antibody

Catalog Number: 83228-1-RR



## Basic Information

<b>Catalog Number:</b> 83228-1-RR	<b>GenBank Accession Number:</b> BC010895	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul, Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 27284	<b>CloneNo.:</b> 240119C12
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O43704	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:200-1:800
<b>Isotype:</b> IgG	<b>Full Name:</b> sulfotransferase family, cytosolic, 1B, member 1	
<b>Immunogen Catalog Number:</b> AG9009	<b>Calculated MW:</b> 296 aa, 35 kDa	
	<b>Observed MW:</b> 35 kDa	

## Applications

**Tested Applications:**  
WB, IHC, FC (Intra), ELISA

**Species Specificity:**  
human, mouse

**Positive Controls:**  
WB : mouse colon tissue,  
IHC : mouse colon tissue,

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

## Background Information

Sulfotransferase 1B1 (SULT1B1) is expressed at highest levels throughout the human colon and small intestine but can also be found at moderate levels in human liver, kidney, and white blood cells (PMID: 28084139). Certain SULT1B1 SNPs may influence the activity of thyroid hormones and the mutagenicity of polycyclic aromatic hydrocarbons (PMID: 34107842).

## 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.

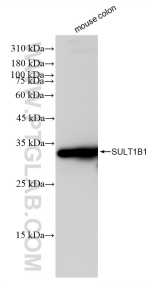
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

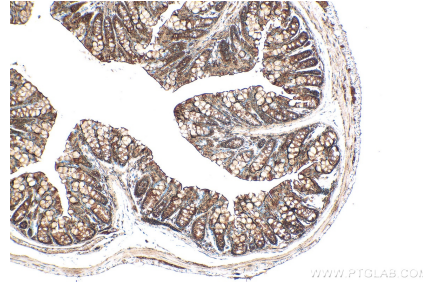
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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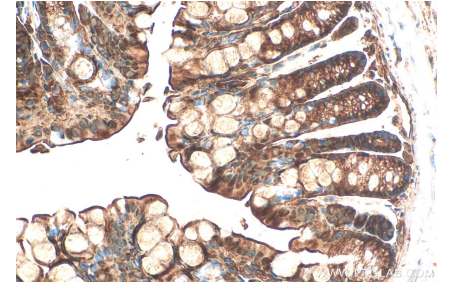
## Selected Validation Data



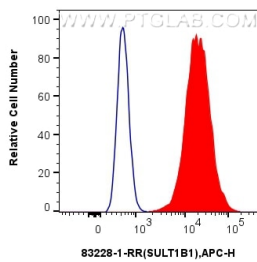
mouse colon tissue were subjected to SDS PAGE followed by western blot with 83228-1-RR (SULT1B1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



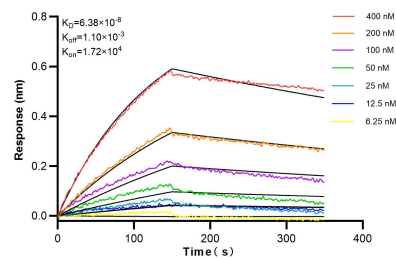
Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 83228-1-RR (SULT1B1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 83228-1-RR (SULT1B1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



$1 \times 10^6$  A431 cells were intracellularly stained with 0.25  $\mu$ g SULT1B1 Recombinant antibody (83228-1-RR, Clone:240119C12) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25  $\mu$ g Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 83228-1-RR against Human SULT1B1 were performed. The affinity constant is 63.8 nM.