

For Research Use Only

# SUR1 Polyclonal antibody

Catalog Number: 55172-1-AP



## Basic Information

<b>Catalog Number:</b> 55172-1-AP	<b>GenBank Accession Number:</b> NM_000352	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 550 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6833	<b>Recommended Dilutions:</b> WB 1:500-1:1000
<b>Source:</b> Rabbit	<b>Full Name:</b> ATP-binding cassette, sub-family C (CFTR/MRP), member 8	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 177 kDa	
	<b>Observed MW:</b> 140-177 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : A549 cells, NCI-H1299 cells, mouse brain tissue, BxPC-3 cells
<b>Species Specificity:</b> human, mouse	

## Background Information

SUR1 (Sulfonylurea receptor 1) is a member of the adenosine triphosphate (ATP)-binding cassette (ABC) protein superfamily, which encompasses a large group of membrane proteins that regulate the transport of ions and molecules across lipid bilayers (PMID:34769328). SUR1 regulates ATP-sensitive K<sup>+</sup> channels and insulin release. Loss-of-function SUR1 mutations cause congenital hyperinsulinism and gain-of-function SUR1 mutations leading to neonatal diabetes (PMID: 18990670). SUR1 is recognized as a key mediator of central nervous system cellular swelling by the transient receptor potential melastatin 4 (TRPM4) channel.

## Storage

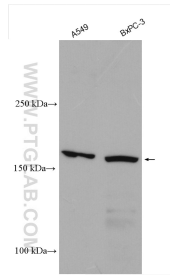
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

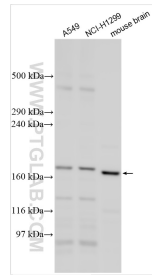
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 55172-1-AP (SUR1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 55172-1-AP (SUR1 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.