

For Research Use Only

# SUR1 Polyclonal antibody

Catalog Number: 55172-1-AP



## Basic Information

### Catalog Number:

55172-1-AP

### Size:

150ul , Concentration: 550 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_000352

### GeneID (NCBI):

6833

### UNIPROT ID:

Q09428

### Full Name:

ATP-binding cassette, sub-family C (CFTR/MRP), member 8

### Calculated MW:

177 kDa

### Observed MW:

140–177 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

## Applications

### Tested Applications:

WB, ELISA

### Species Specificity:

human, mouse

### Positive Controls:

WB : A549 cells, NCI-H1299 cells, mouse brain tissue, BxPC-3 cells

## 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. 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. SUR1 was detected 140-177 kDa in the pancreas, brain, heart (PMID: 34380876).

## 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

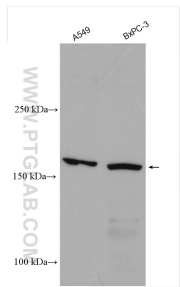
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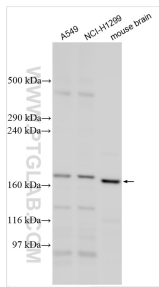
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Selected Validation Data



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.