For Research Use Only

SUR1 Polyclonal antibody

Catalog Number:55172-1-AP

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Basic Information

Catalog Number:
55172-1-AP

Size:
550 μg/ml

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

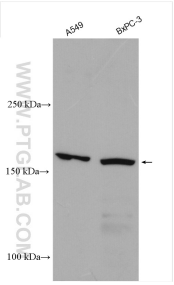
SUR1 (Sulfonylurea receptor 1) is a member of the adenosine triphosphate (ATP)-binding cassette (ABC) protein superfamily, which encompasses a large group of membrane proteins that regulate the transport of ions and molecules across lipid bilayers (PMID:34769328). SUR1 regulates ATP-sensitive K+ channels 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+ 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

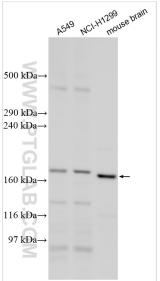
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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.