

SUR1 and SUR2B Antibody
SUR1/SUR2B Antibody, Clone S323A-31
Catalog # ASM10266

Specification

SUR1 and SUR2B Antibody - Product Information

Application	ICC/IF, WB
Primary Accession	O63563
Other Accession	NP_037172.2
Host	Mouse
Isotype	IgG1
Reactivity	Mouse, Rat
Clonality	Monoclonal
Format	RPE

Description

Mouse Anti-Rat SUR1 and SUR2B
 Monoclonal IgG1

Target/Specificity

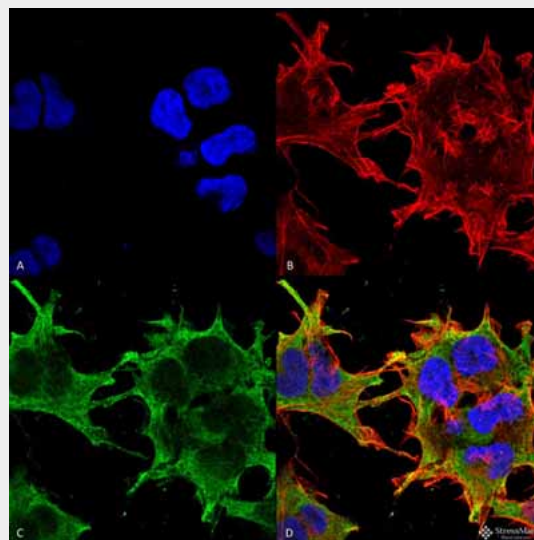
Detects ~175kDa and smaller fragments likely due to proteolytic cleavage.

Other Names

ABC36 Antibody, Abcc8 Antibody, ABCC8_HUMAN Antibody, ATP binding cassette sub family C (CFTR/MRP) member 8 Antibody, ATP binding cassette transporter sub family C member 8 (1) Antibody, ATP-binding cassette sub-family C member 8 Antibody, HHF1 Antibody, HI Antibody, HRINS Antibody, MRP8 Antibody, PHHI Antibody, Sulfonylurea receptor (hyperinsulinemia) Antibody, Sulfonylurea receptor 1 Antibody, SUR Antibody, SUR1 Antibody, SUR1delta2 Antibody, TNDM2 Antibody, ABC37 Antibody, abcC9 Antibody, ABCC9_HUMAN Antibody, AI414027 Antibody, AI449286 Antibody, ATFB12 Antibody, ATP-binding cassette sub-family C member 9 Antibody, ATP-binding cassette transporter sub-family C member 9 Antibody, ATP-binding cassette Antibody, sub-family C (CFTR/MRP) Antibody, member 9 Antibody, CANTU Antibody, CMD10 Antibody, FLJ36852 Antibody, Sulfonylurea receptor 2 Antibody, Sulfonylurea-binding protein 2 Antibody, SUR2 Antibody, SUR2A Antibody, SUR2B Antibody

Immunogen

Fusion protein amino acids 1503-1545 (VHTI LTADLVIVMKRGNILEYDTPESLLAQEDGVFASF



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-SUR1 and SUR2B Monoclonal Antibody, Clone S323A-31 (ASM10266). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-SUR1 and SUR2B Monoclonal Antibody (ASM10266) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT. Localization: Membrane. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) SUR1 and SUR2B Antibody (D) Composite.

VRADM, cytoplasmic C-terminus) of rat SUR2B

Purification
Protein G Purified

Storage **-20°C**
Storage Buffer
PBS pH7.4, 50% glycerol, 0.09% sodium azide

Shipping **Blue Ice or 4°C**
Temperature

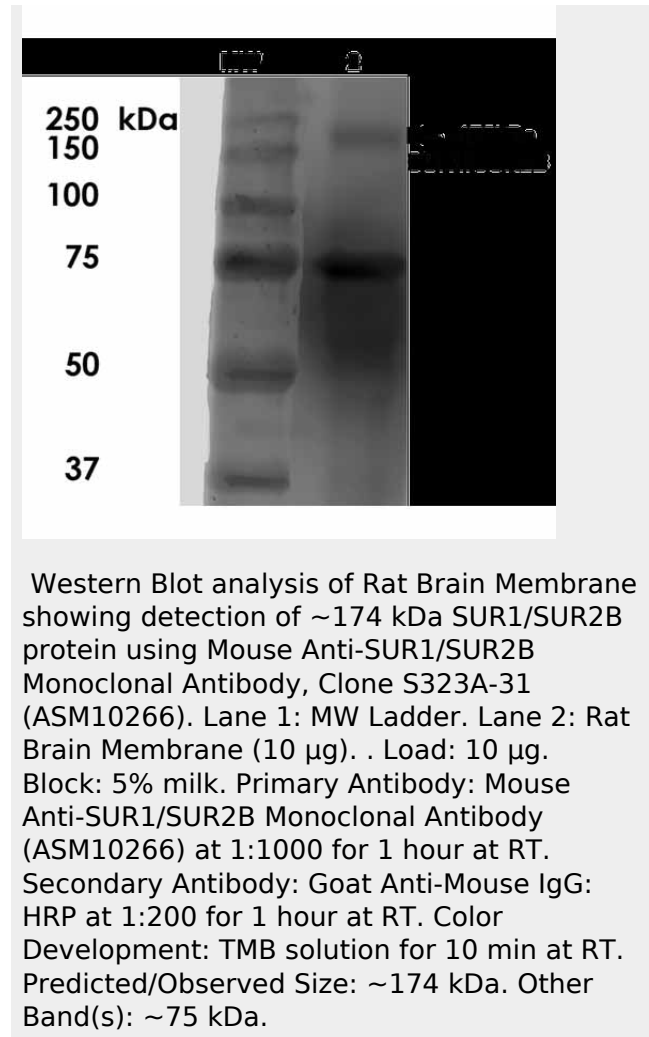
Certificate of Analysis
1 µg/ml of SMC-432 was sufficient for detection of SUR1 and SUR2B in 20 µg of mouse brain membrane lysate and assayed by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody.

Cellular Localization
Membrane

SUR1 and SUR2B Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)



SUR1 and SUR2B Antibody - Background

Sulfonylurea receptors (SUR) are membrane proteins which are the molecular targets of the sulfonylurea class of anti-diabetic drugs whose mechanism of action is to promote insulin release from pancreatic beta cells. More specifically, SUR proteins are subunits of the inward-rectifier potassium ion channels Kir6.x (6.1 and 6.2) (1). The association of four Kir6.x and four SUR subunits form an ion conducting channel commonly referred to as the KATP channel. The primary function of the sulfonylurea receptor is to sense intracellular levels of the nucleotides ATP and ADP and in response facilitate the open or closing its associated Kir6.x potassium channel. Hence the KATP channel monitors the energy balance within the cell (2).

SUR1 and SUR2B Antibody - References

1. Campbell J.D., Sansom M.S., Ashcroft F.M. (2003) EMBO Resp. 4(11): 1038-1042.
2. Nichols C.G. (2006) Nature. 440 (7083): 470-476.