

## SUR1 Monoclonal Antibody

### ORDERING INFORMATION

**Catalog No.:** 11567 (clone S289-16)  
**Size:** 100ug in PBS, pH 7.4; 50% glycerol, 0.09% sodium azide. Purified by Protein G affinity chromatography.

### BACKGROUND

Sulfonylurea receptors (SUR) are membrane proteins that are molecular targets of the sulfonylurea class of antidiabetic drugs whose mechanism of action is to promote insulin release from pancreatic beta cells. SUR proteins are subunits of the inward-rectifier potassium ion channels Kir6.x (6.1 and 6.2). The association of four Kir6.x and four SUR subunits form an ion conducting channel commonly referred to as the K<sub>ATP</sub> channel. The primary function of the SUR is to sense intracellular levels of ATP and ADP and facilitate the opening or closing of its associated Kir6.x potassium channel, thus monitoring the energy balance within cells.

### SPECIFICATION SUMMARY

**Antigen:** Fusion protein corresponding to aa 1548-1582 (cytoplasmic C-terminus) of rat SUR1 (accession no. NP\_037171.2).

**Host Species:** Mouse

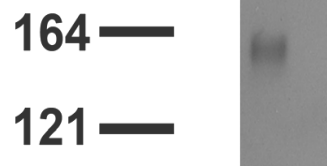
**Antibody Class:** IgG1

### SPECIFICITY

This antibody recognizes human, mouse, and rat SUR1. It does not cross-react with SUR2B.

### APPLICATIONS

*Immunoblotting:* use at 1-2ug/ml. A band of ~160kDa is detected.



Immunoblot on mouse brain membranes.

*Immunohistochemistry:* use at 1-10ug/ml. These are recommended concentrations. User should determine optimal concentrations for their application.

*Positive control:* Mouse brain membranes.

### DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

### STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid repeated freezing and thawing.

*For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.*