

SUR1 / SUR2B Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 11569 (clone S323A-31)
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_{ATP} 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 1503-1545 (VHTILTADLVIVMKRGNILEYDTPESLLAQEDGVFASFVRADM, cytoplasmic C-terminus) of rat SUR2B (accession no. Q63563-2).

Host Species: Mouse

Antibody Class: IgG1

SPECIFICITY

This antibody recognizes mouse and rat SUR1 and SUR2B.

APPLICATIONS

Immunoblotting: use at 1-2ug/ml. A band of ~175kDa is detected. Smaller fragments, most likely due to cleavage products, are also detected.

Positive control: Mouse brain lysate. These are recommended concentrations. User should determine optimal concentrations for their application.

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.