

Anti-Kir2.2 K⁺ Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 11532 (clone S124B/38)

Size: 100ug in PBS, pH 7.4; 50% glycerol, 0.09% sodium azide. Purified by Protein G affinity chromatography.

BACKGROUND

Ion channels are integral membrane proteins that help establish and control the small voltage gradient across the plasma membrane of living cells by allowing the flow of ions down their electrochemical gradient. Kir2.2 participates in establishing action potential waveform and excitability of neuronal and muscle tissues. This gene encodes an inwardly rectifying K⁺ channel which may be blocked by divalent cations. This protein is thought to be one of multiple inwardly rectifying channels which contribute to the cardiac inward rectifier current (IK1). The gene is located within the Smith-Magenis syndrome region on chromosome 17.

SPECIFICATION SUMMARY

Antigen: Synthetic peptide corresponding to aa 390-410 (cytoplasmic C-terminus) of rat Kir2.2 (accession number P52188).

Host Species: Mouse

Antibody Class: IgG1

SPECIFICITY

This antibody recognizes rat Kir2.2. It does not cross-react with Kir2.1 or Kir2.3.

APPLICATIONS

Immunoblotting: use at 1-10ug/ml. A band of ~48kDa is detected.

Immunohistochemistry and

Immunocytochemistry: use at 0.1-1ug/ml

Immunofluorescence: use at 1-10ug/ml.

These are recommended concentrations.

User should determine optimal concentrations for their application.

Positive control: Rat brain lysate.

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.