

Anti-BK Beta2 K⁺ Channel Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 11526 (clone S53-32)
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. BK channels contribute to electrical impulses, proper signal transmission, and regulation of neurotransmitter release. Research suggests that distribution of the beta subunits in the brain can modulate the BK channels to contribute to the pathophysiology of epilepsy and dyskinesia.

SPECIFICATION SUMMARY

Antigen: Fusion protein corresponding to aa 1-41 (N-terminus) and 218-235 (C-terminus) of mouse BK Beta2 (accession no. Q9CZM9). This N-terminal sequence is 97% homologous with human and mouse. This C-terminal sequence is 100% homologous with human and mouse.

Host Species: Mouse

Antibody Class: IgG1

SPECIFICITY

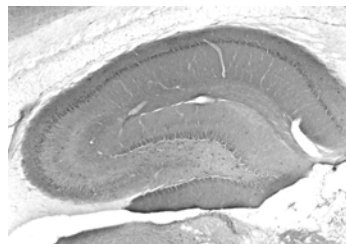
This antibody recognizes human, mouse, and rat BK Beta2. It does not cross-react with BK Beta1, BK Beta3 or BK Beta4.

APPLICATIONS

Immunoblotting: use at 1ug/ml. A band of ~27kDa is detected.

Immunohistochemistry and

Immunocytochemistry: use at 0.1-1ug/ml



Adult rat hippocampus

Immunofluorescence: use at 1-10ug/ml

These are recommended concentrations. User should determine optimal concentrations for their application.

Positive control: Adult 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.