

Anti-Cav3.2 Ca⁺² Channel Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 11505 (clone S55-10)
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. Cav3.2 is a protein which in humans is encoded by the CACNA1H gene. Studies suggest that certain mutations in this gene lead to childhood absence epilepsy. It has also been suggested that up-regulation of Cav3.2 may be involved in the progression of prostate cancer toward an androgen-independent stage.

SPECIFICATION SUMMARY

Antigen: Fusion protein aa 1019-1293 (II-III loop) of human Cav3.2 (accession number O95180).

Host Species: Mouse

Antibody Class: IgG1

SPECIFICITY

This antibody recognizes human, mouse, and rat Cav3.2. It does not cross-react with Cav1.3.

APPLICATIONS

Immunoblotting: use at 1-10ug/ml. A band of ~260kDa 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: HEK cell 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.