

Anti-TrpV3 Cation Channel Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 11520 (clone S15-4)
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. The TrpV3 protein belongs to a family of nonselective cation channels that function in a variety of processes including temperature sensation and vasoregulation. The thermosensitive members of this family are expressed in subsets of sensory neurons that terminate in the skin and are activated at distinct physiological temperatures. The TrpV3 channel is activated at temperatures between 22 and 40 C. The TrpV3 gene is in close proximity to the TrpV1 gene on chromosome 17, and studies suggest that the corresponding two proteins associate with each other to form heteromeric channels.

SPECIFICATION SUMMARY

Antigen: Synthetic peptide corresponding to aa 458-474 (cytoplasmic C-terminus) of rat TrpV3 (accession no. NP_001020928)

Host Species: Mouse

Antibody Class: IgG2a

SPECIFICITY

This antibody recognizes human, mouse, and rat TrpV3.

APPLICATIONS

Immunoblotting: use at 1-10ug/ml. A band of ~70kDa 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: COS cell lysate transiently transfected with TrpV3.

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.