

## Anti-TrpV3 Cation Channel Monoclonal Antibody

### ORDERING INFORMATION

**Catalog No.:** 11527 (clone S15-39)  
**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. TrpV3 is in a family of non-selective cation channels that function in a variety of processes including temperature sensation and vaso-regulation. The thermosensitive members of this family are expressed in sensory neurons that terminate in the skin and is activated at temperatures between 22-40°C. TrpV3 might associate with TrpV1 to form heteromeric channels.

### SPECIFICATION SUMMARY

**Antigen:** Synthetic peptide corresponding to aa 458-474 (cytoplasmic C-terminus) of rat TrpV3 (accession no. NP\_001020928). This sequence is 77% homologous with human and 100% homologous with mouse TrpV3.

**Host Species:** Mouse

**Antibody Class:** IgG1

### SPECIFICITY

This antibody recognizes human, mouse, and rat TrpV3.

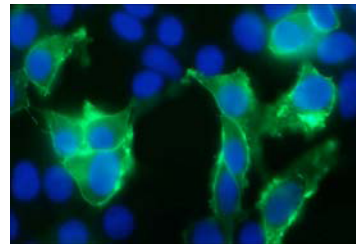
### APPLICATIONS

*Immunoblotting:* use at 1ug/ml. A band of ~70kDa is detected.

*Immunohistochemistry and*

*Immunocytochemistry:* use at 0.1-1ug/ml

*Immunofluorescence:* use at 1-10ug/ml



Transfected HEK293 cell immunofluorescence staining. Green = #11527; Blue = DAPI

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

*Positive control:* Lysate of COS-1 cells 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 -20oC. Avoid repeated freezing and thawing.

*For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.*