

## Anti-TrpC7 Ca<sup>+2</sup> Channel Monoclonal Antibody

### ORDERING INFORMATION

Catalog No.: 11522 (clone S64A-36)  
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. Transient receptor potential cation channel, subfamily C, member 7 (TrpC7) has non-selective cation constitutive activity and susceptibility to negative regulation by extracellular Ca<sup>+2</sup>. TrpC7 plays an important role in the Ca<sup>+2</sup> signaling pathway. TrpC7 is abundantly expressed in heart and may contribute to heart failure.

### SPECIFICATION SUMMARY

**Antigen:** Synthetic peptide corresponding to aa 845-862 (FGNLNKDHLRVNKGKDI) of human TrpC7 (accession no. Q9HCX4). This sequence is 100% identical to rat and 94% identical to mouse.

**Host Species:** Mouse

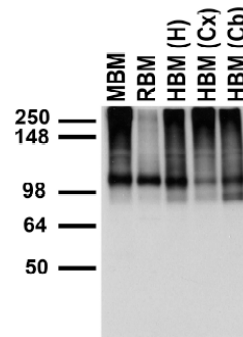
**Antibody Class:** IgG1

### SPECIFICITY

This antibody recognizes human, mouse, and rat TrpC7.

### APPLICATIONS

*Immunoblotting:* use at 1-10ug/ml. A band of ~100kDa is detected.



Membranes from mouse (MBM) and rat (RBM) brain, human hippocampus [HBM(H)], cerebral cortex [HBM(Cx)] and cerebellum [HBM(Cb)].

*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.*