

**TRPM3 polyclonal antibody**

Catalog: BS35669

Host: Rabbit

Reactivity: Human

BackGround:

Transient receptor potential cation channel subfamily M member 3: Constitutively active, non-selective divalent cation-conducting channel that is permeable to $\text{Ca}(2+)$, $\text{Mn}(2+)$, and $\text{Mg}(2+)$, with a high permeability for $\text{Ca}(2+)$. However, can be enhanced by increasing temperature and by ligands, including the endogenous neurosteroid pregnenolone sulfate and sphingosine-1 and suppressed by intracellular $\text{Mg}(2+)$. Implicated in a variety of cellular processes, including insulin/peptide secretion, vascular constriction and dilation, noxious heat sensing, inflammatory and spontaneous pain sensitivity. In neurons of the dorsal root ganglia, functions as thermosensitive channel for the detection of noxious heat and spontaneous pain. Suggested to function as an ionotropic steroid receptor in beta-cell, indeed pregnenolone sulfate leads to $\text{Ca}(2+)$ influx and enhanced insulin secretion. Mediates $\text{Zn}(2+)$ uptake into the lumen of pancreatic beta cell secretory granules...

Product:

1mg/ml in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~198 kDa

Swiss-Prot:

Q9HCF6

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000)

Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of TRPM3 protein

DATA:

Western blot analysis of FGFR1 (Phospho-Y654) expression in mouse testis (A) whole cell lysates.

Immunofluorescent analysis of FGFR1 (Phospho-Y654) staining in COS7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

Note:

For research use only, not for use in diagnostic procedure.

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