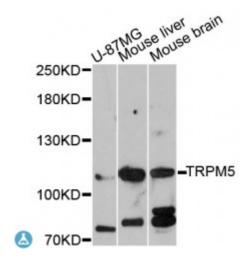


Anti-TRPM5 Antibody



Description

This gene encodes a member of the transient receptor potential (TRP) protein family, which is a diverse group of proteins with structural features typical of ion channels. This protein plays an important role in taste transduction, and has characteristics of a calcium-activated, non-selective cation channel that carries Na+, K+, and Cs+ ions equally well, but not Ca(2+) ions. It is activated by lower concentrations of intracellular Ca(2+), and inhibited by higher concentrations. It is also a highly temperature-sensitive, heat activated channel showing a steep increase of inward currents at temperatures between 15 and 35 degrees Celsius. This gene is located within the Beckwith-Wiedemann syndrome critical region-1 on chromosome 11p15.5, and has been shown to be imprinted, with exclusive expression from the paternal allele.

Model STJ114243

Host Rabbit

Reactivity Human, Mouse

Applications WB

Immunogen Recombinant fusion protein containing a sequence corresponding to amino

acids 1026-1165 of human TRPM5 (NP_055370.1).

Gene ID 29850

Gene Symbol TRPM5

Dilution range WB 1:200 - 1:500

Tissue Specificity Strongly expressed in fetal brain, liver and kidney, and in adult prostate, testis,

ovary, colon and peripheral blood leukocytes, Also expressed in a large proportion of Wilms' tumors and rhabdomyosarcomas, In monochromosomal

cell lines shows exclusive paternal expression

Purification Affinity purification

Note For Research Use Only (RUO).

Protein Name Transient receptor potential cation channel subfamily M member 5 Long

transient receptor potential channel 5 LTrpC-5 LTrpC5 MLSN1- and TRP-

related gene 1 protein

Molecular Weight 131.451 kDa

Clonality Polyclonal

Conjugation Unconjugated

Isotype IgG

Formulation PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Storage Instruction Store at -20C. Avoid freeze / thaw cycles.

Database Links HGNC:14323OMIM:604600Reactome:R-HSA-3295583

Alternative Names Transient receptor potential cation channel subfamily M member 5 Long

transient receptor potential channel 5 LTrpC-5 LTrpC5 MLSN1- and TRP-

related gene 1 protein

Function Voltage-modulated Ca(2+)-activated, monovalent cation channel (VCAM)

that mediates a transient membrane depolarization and plays a central role in taste transduction, Monovalent-specific, non-selective cation channel that mediates the transport of Na(+), K(+) and Cs(+) ions equally well, Activated directly by increases in intracellular Ca(2+), but is impermeable to it, Gating is voltage-dependent and displays rapid activation and deactivation kinetics upon channel stimulation even during sustained elevations in Ca(2+), Also activated by a fast intracellular Ca(2+) increase in response to inositol 1,4,5-

triphosphate-producing receptor agonists, The channel is blocked by

extracellular acidification, External acidification has 2 effects, a fast reversible

block of the current and a slower irreversible enhancement of current

inactivation, Is a highly temperature-sensitive, heat activated channel showing a steep increase of inward currents at temperatures between 15 and 35 degrees Celsius, Heat activation is due to a shift of the voltage-dependent activation curve to negative potentials, Activated by arachidonic acid in vitro, May be involved in perception of bitter, sweet and umami tastes, May also be

involved in sensing semiochemicals,

Cellular Localization Cell membrane