

ARG40780 anti-TRPM5 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes TRPM5
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	TRPM5
Species	Human
Immunogen	Recombinant protein corresponding to S1021-Q1108 of Human TRPM5.
Conjugation	Un-conjugated
Alternate Names	LTrpC5; Transient receptor potential cation channel subfamily M member 5; LTRPC5; MTR1; MLSN1- and TRP-related gene 1 protein; LTrpC-5; Long transient receptor potential channel 5

Application Instructions

Application table	Application	Dilution
	IHC-P	0.5 - 2 µg/ml
	WB	0.25 - 1 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	130 kDa	

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol TRPM5

Gene Full Name transient receptor potential cation channel, subfamily M, member 5

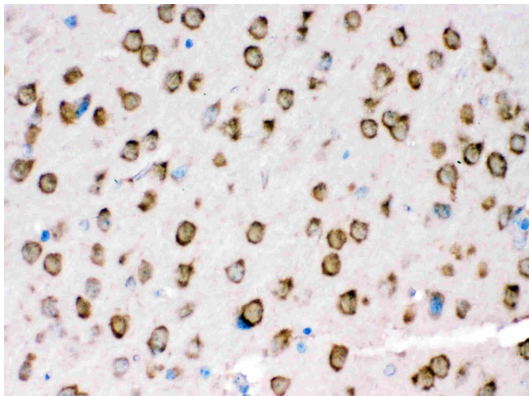
Background This gene encodes a member of the transient receptor potential (TRP) protein family, which is a diverse group of proteins with structural features typical of ion channels. This protein plays an important role in taste transduction, and has characteristics of a calcium-activated, non-selective cation channel that carries Na⁺, K⁺, and Cs⁺ ions equally well, but not Ca²⁺ ions. It is activated by lower concentrations of intracellular Ca²⁺, 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. [provided by RefSeq, Oct 2010]

Function Voltage-modulated Ca²⁺-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 Ca²⁺, but is impermeable to it. Gating is voltage-dependent and displays rapid activation and deactivation kinetics upon channel stimulation even during sustained elevations in Ca²⁺. Also activated by a fast intracellular Ca²⁺ 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. [UniProt]

Calculated Mw 131 kDa

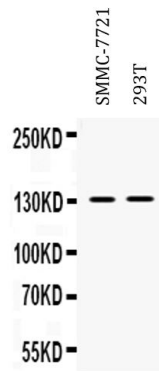
Cellular Localization Cell membrane; Multi-pass membrane protein. [UniProt]

Images



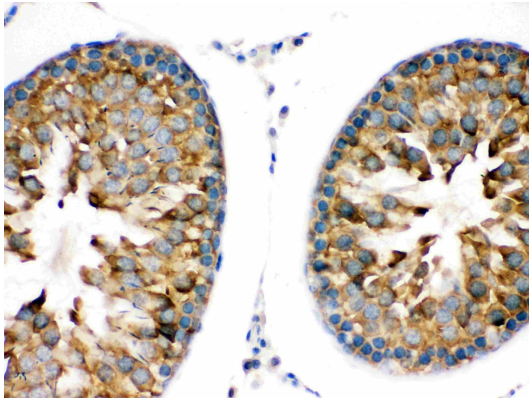
ARG40780 anti-TRPM5 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse brain tissue stained with ARG40780 anti-TRPM5 antibody at 1 µg/ml dilution.



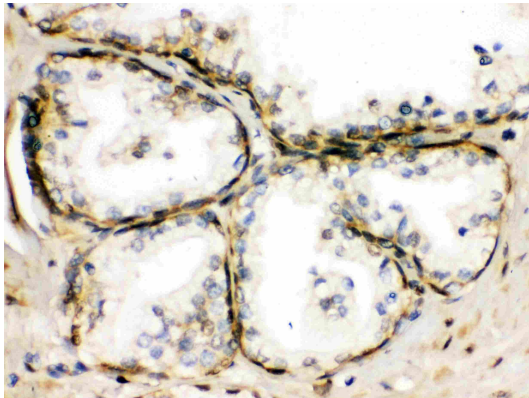
ARG40780 anti-TRPM5 antibody WB image

Western blot: SMMC-7721 and 293T whole cell lysates stained with ARG40780 anti-TRPM5 antibody at 0.5 $\mu\text{g/ml}$ dilution.



ARG40780 anti-TRPM5 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat testis tissue stained with ARG40780 anti-TRPM5 antibody at 1 $\mu\text{g/ml}$ dilution.



ARG40780 anti-TRPM5 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human prostatic cancer tissue stained with ARG40780 anti-TRPM5 antibody at 1 $\mu\text{g/ml}$ dilution.