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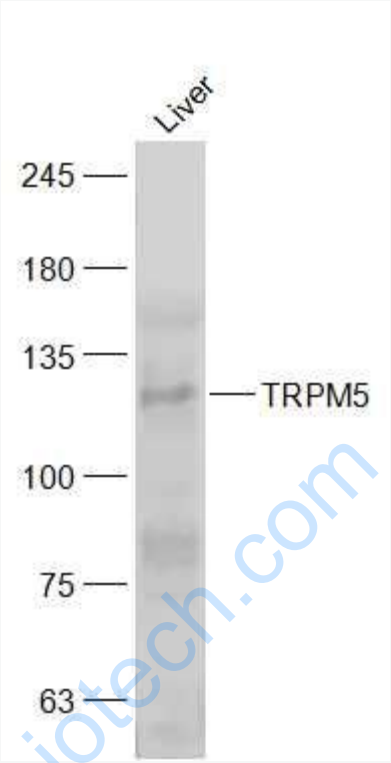
Rabbit Anti-TRPM5 antibody

SL9047R

Product Name:	TRPM5
Chinese Name:	瞬时受体电位离子Channel protein5抗体(M亚家族)
Alias:	MLSN1 and TRP related gene 1; MLSN1 and TRP related gene 1 protein; MLSN1 and TRP-related; MLSN1- and TRP-related gene 1 protein; MTR1; Novel protein similar to vertebrate transient receptor potential cation channel, subfamily M, member 5 ; Transient receptor potential cation channel subfamily M member 5; Transient receptor potential cation channel, subfamily M, member 5; Trpm5; TRPM5 transient receptor potential cation channel, subfamily M, member 5; TRPM5_HUMAN; 9430099A16Rik; Long transient receptor potential channel 5; LTrpC-5; LTrpC5.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Cow,
Applications:	WB=1:500-2000ELISA=1:500-1000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	131kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human TRPM5:701-800/1165<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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. **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. **Subcellular Location:** Cell membrane **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. **Similarity:** Belongs to the transient receptor (TC 1.A.4) family. LTrpC subfamily. TRPM5 sub-subfamily. **SWISS:**

	Q9NZQ8 **Gene ID:** 29850 **Database links:** Entrez Gene: 29850 Human Entrez Gene: 56843 Mouse Entrez Gene: 365391 Rat Omim: 604600 Human SwissProt: Q9NZQ8 Human SwissProt: Q9JJH7 Mouse Unigene: 272287 Human Unigene: 286668 Mouse **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:	 Sample: Liver(Human) Cell Lysate at 40 ug Primary: Anti-TRPM5 (SL9047R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 131 kD Observed band size: 131 kD