

**bs-23624R****[ Primary Antibody ]****BioSS**  
ANTIBODIES

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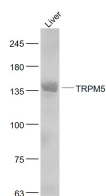
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**TRPM5 Rabbit pAb****— DATASHEET —**

<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> WB (1:500-2000)
<b>Clonality:</b> Polyclonal		<b>Reactivity:</b> Mouse (predicted: Human, Rat, Cow, Chicken, Dog, Horse)
<b>GeneID:</b> 29850	<b>SWISS:</b> Q9NZQ8	<b>Predicted MW.:</b> 131 kDa
<b>Target:</b> TRPM5		<b>Subcellular Location:</b> Cell membrane
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human TRPM5: 311-410/1165. < Cytoplasmic >		
<b>Purification:</b> affinity purified by Protein A		
<b>Concentration:</b> 1mg/ml		
<b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
<b>Background:</b> 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.		

**— VALIDATION IMAGES —**

Sample: Liver (Mouse) Lysate at 40 ug Primary:  
Anti- TRPM5 (bs-23624R) at 1/1000 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at  
1/20000 dilution Predicted band size: 131 kD  
Observed band size: 135 kD

**— SELECTED CITATIONS —**

- **[IF=2.7]** Siwei Jiao. et al. Testosterone biosynthesis and spermatogenesis disruption by PM exposure: The hidden role of bitter taste transduction. J STEROID BIOCHEM. 2024 Dec;;106670 IHC ;Mouse. 10.1016/j.jsbmb.2024.106670