

## Anti-TRPM5 Antibody Picoband® Biotin Conjugated

Catalog Number: PB9903-Biotin

### About TRPM5

Transient receptor potential cation channel subfamily M member 5 (TRPM5) is a protein that in humans is encoded by the TRPM5 gene. 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<sup>+</sup>, K<sup>+</sup>, and Cs<sup>+</sup> ions equally well, but not Ca (2<sup>+</sup>) ions. It is activated by lower concentrations of intracellular Ca (2<sup>+</sup>), 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.

### Overview

Product Name	Anti-TRPM5 Antibody Picoband® Biotin Conjugated
Reactive Species	Human, Mouse, Rat
Application	WB, IHC, ELISA
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q9NZQ8

### Technical Details

Immunogen	E.coli-derived human TRPM5 recombinant protein (Position: S1021-Q1108). Human TRPM5 shares 87.5% amino acid (aa) sequence identity with mouse TRPM5.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Biotin

**Suggested Dilutions**

Western blot, Optimal dilutions should be determined by end users.  
Immunohistochemistry (Paraffin-embedded Section), Optimal dilutions should be determined by end users.  
ELISA, Optimal dilutions should be determined by end users.

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Anti-TRPM5 Antibody - Biotin

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