

## Anti-LRTOMT Antibody Picoband® Fluoro488 Conjugated

Catalog Number: A13092-1-Fluoro488

### About LRTOMT

Leucine rich transmembrane and O-methyltransferase domain containing is a protein that in humans is encoded by the LRTOMT gene. It is mapped to 11q13.4. This gene has evolved in primates as a fusion of two ancestral neighboring genes, Lrrc51 and Tomt, which exist as two independent genes in rodents. The fusion gene contains some shared exons, but encodes structurally unrelated proteins, LRTOMT1 and LRTOMT2. Those variants that utilize the more centromere-proximal 3' terminal exon (short transcript form) encode LRTOMT1, while those variants that use a more centromere-distal 3' terminal exon (long transcript form) encode the LRTOMT2 protein. There is a small region within one of the exons of this gene that contains overlapping alternate reading frames for both LRTOMT1 and LRTOMT2. LRTOMT1 shares similarity with the protein encoded by mouse Lrrc51, while LRTOMT2 shares similarity with the protein encoded by mouse Tomt. Alternative splicing results in multiple transcript variants, encoding different isoforms of both LRTOMT1 and LRTOMT2. The LRTOMT1 protein is a leucine-rich repeat-containing protein, while the LRTOMT2 protein is a catechol-O-methyltransferase that catalyzes the transfer of a methyl group from S-adenosyl-L-methionine to a hydroxyl group of catechols and is essential for auditory and vestibular function. Mutations in this gene have been associated with nonsyndromic deafness.

### Overview

Product Name	Anti-LRTOMT Antibody Picoband® Fluoro488 Conjugated
Reactive Species	Human, Mouse, Rat
Application	Flow Cytometry
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% Na <sub>3</sub> N.
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	Q8WZ04

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human LRTOMT.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.

Conjugate	Fluoro488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Suggested Dilutions	Flow Cytometry, Optimal dilutions should be determined by end users.

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