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# LHFPL5 Rabbit pAb

Catalog # AP97631

## Product Information

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| **Application** | IHC-P, IHC-F, IF |
| **Primary Accession** | Q8TAF8 |
| **Other Accession** | Q8TAF8 |
| **Reactivity** | Rat, Human |
| **Predicted** | Mouse, Horse, Sheep |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 24201 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human LHFPL5 |
| **Epitope Specificity** | 1-100/219 |
| **Isotype** | IgG |
| **Purity** | affinity purified by Protein A |
| **Buffer** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| **SIMILARITY** | Belongs to the LHFP family. |
| **DISEASE** | Defects in LHFPL5 are a cause of deafness autosomal recessive type 67 (DFNB67) [MIM:610265]. DFNB67 is a form of sensorineural hearing loss. Sensorineural deafness results from damage to the neural receptors of the inner ear, the nerve pathways to the brain, or the area of the brain that receives sound information. |
| **Important Note** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Background Descriptions** | This gene is a member of the lipoma HMGIC fusion partner (LHFP) gene family, which is a subset of the superfamily of tetraspan transmembrane protein encoding genes. Mutations in this gene result in deafness in humans, and a mutation in a similar gene in mice results in deafness and vestibular dysfunction with severe degeneration of the organ of Corti. It is proposed to function in hair bundle morphogenesis. [provided by RefSeq, Jul 2008] |

## Additional Information

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| **Gene ID** | 222662 |
| **Other Names** | DFNB67; TMHS; dJ510O8.8; 9330179O15Rik; hscy; LHPL5_HUMAN; LHFPL5; Lipoma HMGIC fusion partner-like 5 protein; Tetraspan membrane protein of hair cell stereocilia; LHPL5_MOUSE; LHPL5_RAT; LHFPL tetraspan subfamily member 5; deafness, autosomal recessive 67; lipoma HMGIC fusion partner-like 5 |
| **Dilution** | IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 |
| **Storage** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

## Protein Information

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| **Name** | LHFPL5 ( HGNC:21253) |
| **Function** | Auxiliary subunit of the mechanotransducer (MET) non-specific cation channel complex located at the tips of the shorter stereocilia of cochlear hair cells and that mediates sensory transduction in the auditory system. The MET complex is composed of two dimeric pore- forming ion-conducting transmembrane TMC (TMC1 or TMC2) subunits, and aided by several auxiliary proteins including LHFPL5, TMIE, CIB2/3 and TOMT, and the tip-link PCDH15. Functionally couples PCDH15 to the transduction channel. |
| **Cellular Location** | Cell membrane {ECO:0000250\|UniProtKB:Q4KL25}; Multi-pass membrane protein. Note=Efficient localization to the plasma membrane requires the presence of PCDH15 {ECO:0000250\|UniProtKB:Q4KL25} |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.