

## Human Meckelin (TMEM67) ELISA Kit | TMEM67 elisa kit

Human Meckelin (TMEM67) ELISA Kit

CATALOG #  
**AAA330483**

REACTIVITY  
**Human**

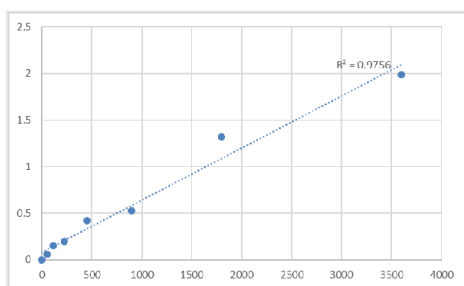
### PRODUCT SYNONYMS

Meckelin (TMEM67); Human Meckelin (TMEM67) ELISA Kit; TMEM67; JBTS6; MECKELIN; MGC26979; MKS3; TNEM67; meckelin; TMEM67 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity             | Human Meckelin (TMEM67) ELISA Kit has high sensitivity and excellent specificity for detection of Human TMEM67. No significant cross-reactivity or interference between Human TMEM67 and analogues was observed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Sequence Length         | 914                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Assay Type              | Sandwich ELISA (Quantitative)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Samples                 | Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Detection Method        | Colorimetric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Usage Notes             | <ul style="list-style-type: none"> <li>* Do not mix components from different kit lots or use reagents beyond the kit expiration date.</li> <li>* Allow all reagents to warm to room temperature for at least 30 minutes before opening.</li> <li>* Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination.</li> <li>* Unused wells must be kept desiccated at 4 degree C in the sealed bag provided.</li> <li>* Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes.</li> <li>* It is recommended that all samples and standards be assayed in duplicate or triplicate.</li> </ul> |
| Preparation and Storage | Store at 2-8 degree C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

### IMAGES



**Standard Curve (Sample)**

Fig.1. Human Meckelin (TMEM67) Standard Curve.

ADDITIONAL INFORMATION

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for TMEM67 elisa kit | <p>Description: This Human Meckelin (TMEM67) ELISA Kit employs a two-site sandwich ELISA to quantitate TMEM67 in samples. An antibody specific for TMEM67 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TMEM67 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TMEM67 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of TMEM67 bound in the initial step. The color development is stopped and the intensity of the color is measured.</p> <p>Background: TMEM67 localizes to the primary cilium and to the plasma membrane. The gene functions in centriole migration to the apical membrane and formation of the primary cilium. Multiple transcript variants encoding different isoforms have been found for this gene. Defects in this gene are a cause of Meckel syndrome type 3 (MKS3) and Joubert syndrome type 6 (JBTS6). The human TMEM67 gene encodes a 995-amino acid protein, which they authors called meckelin, with a calculated unglycosylated weight of 108 kD. Human and rat meckelin share 84% identity. Meckelin was predicted to contain a signal peptide, at least 2 cysteine-rich repeats, and a 490-residue extracellular region with 4 N-linked glycosylated sites, followed by 7 transmembrane domains and a 30-residue cytoplasmic tail.</p> |
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NCBI AND UNIPROT INFORMATION

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|----------------------------------|---------------------------------------|
| NCBI GI #                        | 214830753                             |
| NCBI GeneID                      | 91147                                 |
| NCBI Accession #                 | NP_001135773                          |
| NCBI GenBank Nucleotide #        | NP_001135773.1                        |
| UniProt Accession #              | Q5HYA8                                |
| NCBI Official Full Name          | meckelin isoform 2                    |
| NCBI Official Synonym Full Names | transmembrane protein 67              |
| NCBI Official Symbol             | TMEM67                                |
| NCBI Official Synonym Symbols    | MKS3; JBTS6; NPHP11; TNEM67; MECKELIN |
| NCBI Protein Information         | meckelin                              |
| UniProt Protein Name             | Meckelin                              |
| UniProt Gene Name                | TMEM67                                |
| UniProt Synonym Gene Names       | MKS3                                  |
| UniProt Entry Name               | MKS3_HUMAN                            |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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