

Recombinant Anti-TMEM67 Rabbit mAb

Catalog # AP95143

Product Information

Application	WB, IHC, FC, IF/IC
Primary Accession	Q5HYA8
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal
Calculated MW	111745

Additional Information

Gene ID	91147
Other Names	MKS3; Meckelin; Meckel syndrome type 3 protein; Transmembrane protein 67
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human TMEM67 protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~1:10~50 IF/IC~~N/A
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

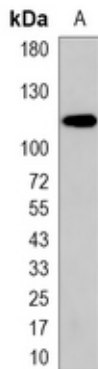
Name	TMEM67
Synonyms	MKS3
Function	Required for ciliary structure and function. Part of the tectonic-like complex which is required for tissue-specific ciliogenesis and may regulate ciliary membrane composition (By similarity). Involved in centrosome migration to the apical cell surface during early ciliogenesis. Involved in the regulation of cilia length and appropriate number through the control of centrosome duplication. Is a key regulator of stereociliary bundle orientation (By similarity). Required for epithelial cell branching morphology. Essential for endoplasmic reticulum-associated degradation (ERAD) of surfactant protein C (SFTPC). Involved in the negative regulation of canonical Wnt signaling, and activation of the non-canonical cascade stimulated by WNT5A (PubMed: 26035863). In non-canonical Wnt signaling, it may act as ROR2 coreceptor (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein. Endoplasmic reticulum membrane; Multi-pass membrane protein. Cell projection, cilium Cytoplasm,

cytoskeleton, cilium basal body. Note=Localizes at the transition zone, a region between the basal body and the ciliary axoneme (PubMed:22121117).

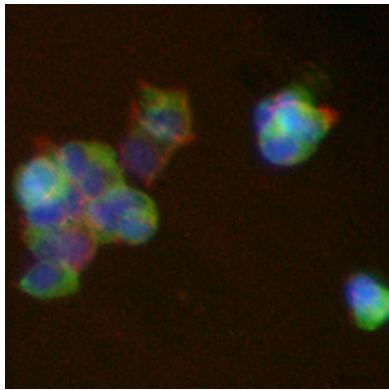
Tissue Location

Widely expressed in adult and fetal tissues. Expressed at higher level in spinal cord.

Images



Western blot analysis of TMEM67 expression in MCF7 (A) whole cell lysates. (Predicted band size: 112 kD; Observed band size: 120 kD)



Immunofluorescent analysis of TMEM67 staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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