

# IHC*easy* MYO7A Ready-To-Use IHC Kit

Catalog Number: **KHC0358**

## General Information

Sample type:  
FFPE tissue  
Cited sample type:  
Reactivity:  
Human, Mouse, Rat  
Cited Reactivity:

Assay type:  
Immunohistochemistry  
Primary antibody type:  
Rabbit Polyclonal  
Secondary antibody type:  
Polymer-HRP-Goat anti-Rabbit

## Kit Component

Component	Size	Concentration
Antigen Retrieval Buffer	100 mL	50×
Washing Buffer	100 mL ×2	20×
Blocking Buffer	5 mL	RTU
Primary Antibody	5 mL	RTU
Secondary Antibody	5 mL	RTU
Chromogen Component A	0.2 mL	RTU
Chromogen Component B	4 mL	RTU
Signal Enhancer	5 mL	RTU
Counter Staining Reagent	5 mL	RTU
Mounting Media	5 mL	RTU
Control Slide	1 slide (Optional)	FFPE
Datasheet	1 Copy	
Manual	1 Copy	

## Storage Instructions

All the reagents are stored at 2-8°C. The kit is stable for 6 months from the date of receipt.

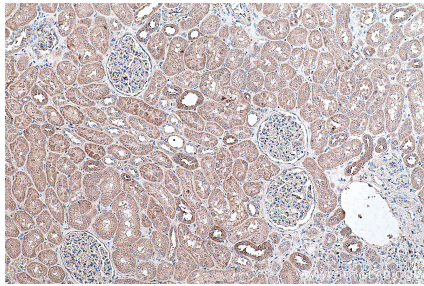
## Background

MYO7A, also named a USH1B, is one of myosins protein which are actin-based motor molecules with ATPase activity. Unconventional myosins serve in intracellular movements. Their highly divergent tails are presumed to bind to membranous compartments, which would be moved relative to actin filaments. In retina, MYO7A might play a role in trafficking of ribbon-synaptic vesicle complexes and renewal of the outer photoreceptors disks. In inner ear, it might maintain the rigidity of stereocilia during the dynamic movements of the bundle. It is involved in hair-cell vesicle trafficking of aminoglycosides, which are known to induce ototoxicity. Defects in MYO7A are the cause of Usher syndrome type 1B (USH1B). Defects in MYO7A are the cause of deafness autosomal recessive type 2 (DFNB2). Defects in MYO7A are the cause of deafness autosomal dominant type 11 (DFNA11).

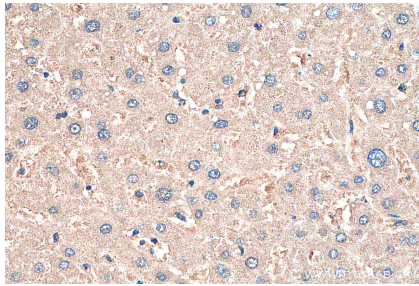
## Synonyms

DFNA11, DFNB2, MYO7A, myosin VIIA, MYOVIIA, MYU7A, NSRD2, USH1B

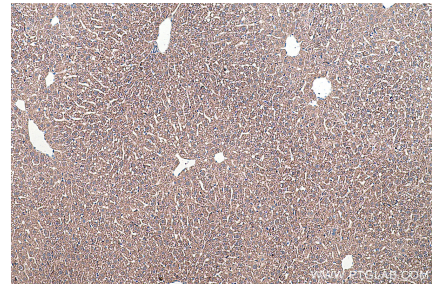
## Selected Validation Data



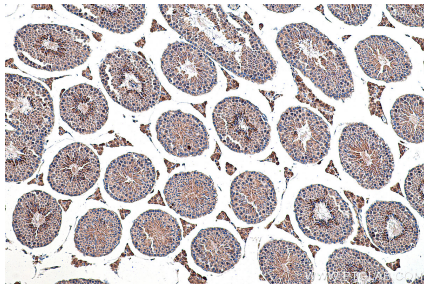
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using KHC0358 (MYO7A IHC Kit).



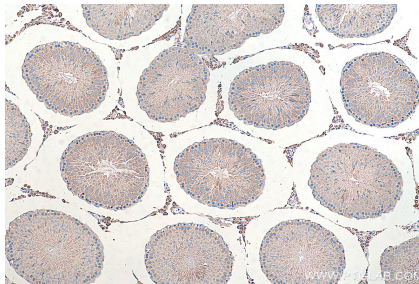
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using KHC0358 (MYO7A IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using KHC0358 (MYO7A IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using KHC0358 (MYO7A IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat testis tissue slide using KHC0358 (MYO7A IHC Kit).