

# IHCeasy<sup>®</sup> PIP5K3 Ready-To-Use IHC Kit

Catalog Number: **KHC3054**

## 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.

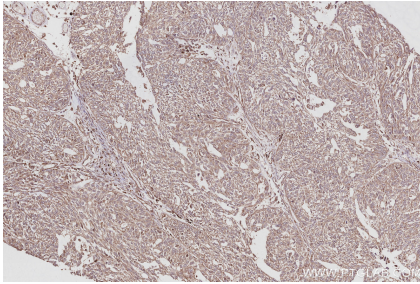
## Background

PIP5K3 (1-phosphatidylinositol 3-phosphate 5-kinase), also called PIKFYVE, belongs to a large family of lipid kinases that alter the phosphorylation status of intracellular phosphatidylinositol. The content of phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P<sub>2</sub>) in endosomal membranes changes dynamically with fission and fusion events that generate or absorb intracellular transport vesicles. PIKFYVE is the PtdIns(3,5)P<sub>2</sub>-producing component of a trimolecular complex that tightly regulates the level of PtdIns(3,5)P<sub>2</sub>. Other components of this complex are the PIKFYVE activator VAC14 and the PtdIns(3,5)P<sub>2</sub> phosphatase. In addition to its phosphoinositide 5-kinase activity, PIKFYVE also has protein kinase activity.

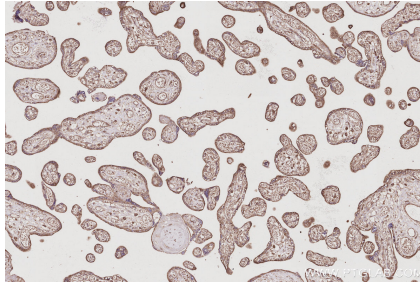
## Synonyms

PIKfyve, 1-phosphatidylinositol 3-phosphate 5-kinase, CFD, EC:2.7.1.150, EC:2.7.11.1

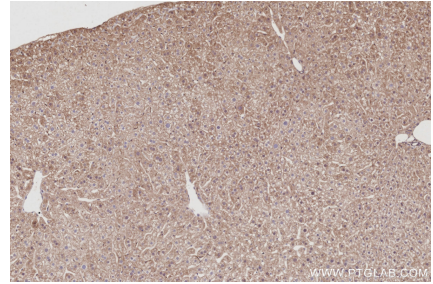
## Selected Validation Data



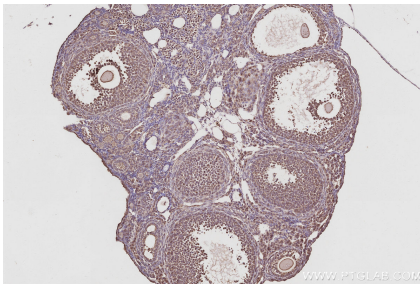
Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using KHC3054 (PIP5K3 IHC Kit).



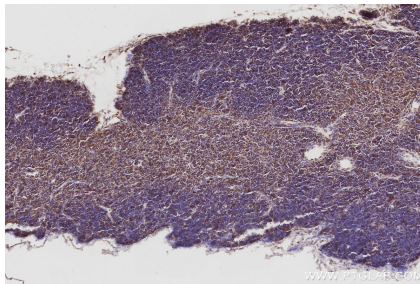
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using KHC3054 (PIP5K3 IHC Kit).



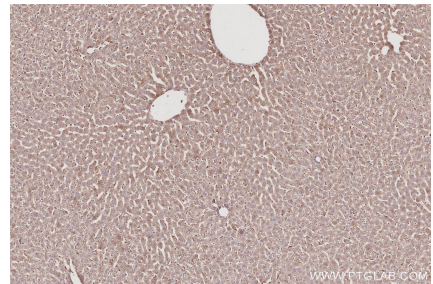
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using KHC3054 (PIP5K3 IHC Kit).



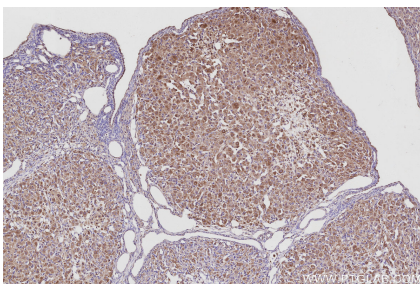
Immunohistochemical analysis of paraffin-embedded mouse ovary tissue slide using KHC3054 (PIP5K3 IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse thymus tissue slide using KHC3054 (PIP5K3 IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat liver tissue slide using KHC3054 (PIP5K3 IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat ovary tissue slide using KHC3054 (PIP5K3 IHC Kit).