

# IHC*easy* SPHK2 Ready-To-Use IHC Kit

Catalog Number: **KHC1961**

## 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.

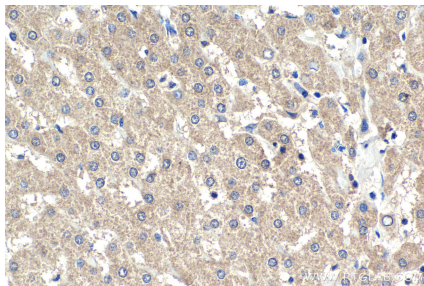
## Background

SPHK2(Sphingosine kinase 2) is also named as SK2, SPK2 and catalyzes the phosphorylation of sphingosine to form sphingosine 1-phosphate (SPP), a lipid mediator with both intra- and extracellular functions. SPHK2 associates with HDAC1 and HDAC2 in repressor complexes and is selectively enriched at the promoters of the genes encoding the cyclin-dependent kinase inhibitor p21 or the transcriptional regulator c-fos, where it enhanced local histone H3 acetylation and transcription. SphK2 is most abundantly expressed in the liver and heart.

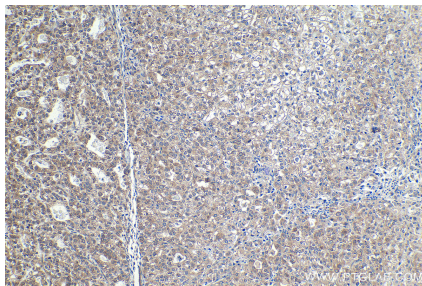
## Synonyms

SPK-2, SPK 2, Sphingosine kinase 2, SK-2, SK 2

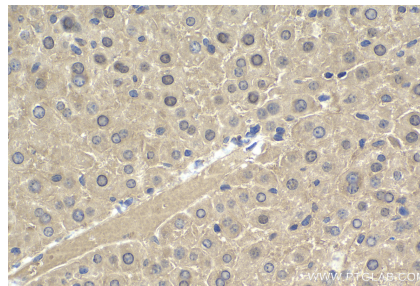
## Selected Validation Data



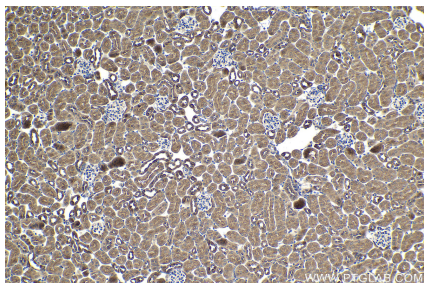
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using KHC1961 (SPHK2 IHC Kit).



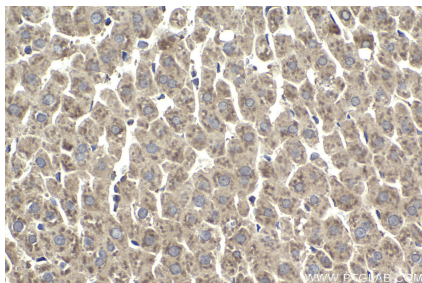
Immunohistochemical analysis of paraffin-embedded human endometrial cancer tissue slide using KHC1961 (SPHK2 IHC Kit).



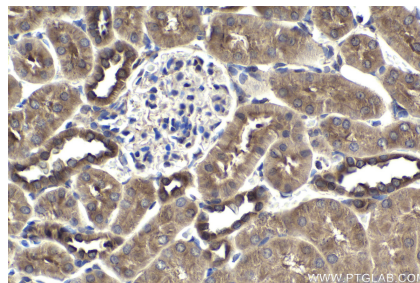
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using KHC1961 (SPHK2 IHC Kit).



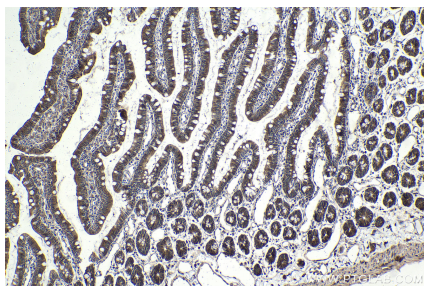
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using KHC1961 (SPHK2 IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat liver tissue slide using KHC1961 (SPHK2 IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using KHC1961 (SPHK2 IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat small intestine tissue slide using KHC1961 (SPHK2 IHC Kit).