

# IHC*easy* CPS1 Ready-To-Use IHC Kit

Catalog Number: **KHC2268**

## 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.

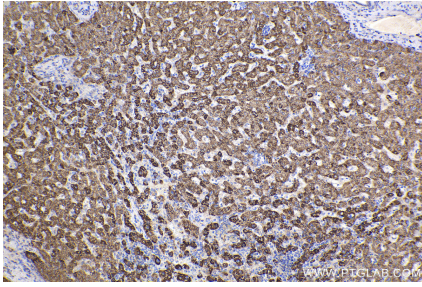
## Background

Carbamoyl phosphate synthetase 1 (CPS1) is the first rate-limiting enzyme in the urea cycle, converting ammonium into carbamoyl phosphate, and plays an intricate role in arginine metabolism and pyrimidine metabolism. CPS1 expression is liver specific and suppressed in HCC cells and tumor tissues at the transcriptional level.

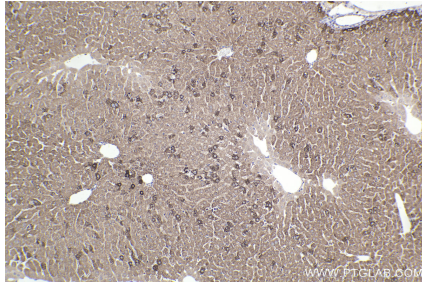
## Synonyms

EC:6.3.4.16, CPSase I, Carbamoyl-phosphate synthetase I, Carbamoyl-phosphate synthase [ammonia], mitochondrial

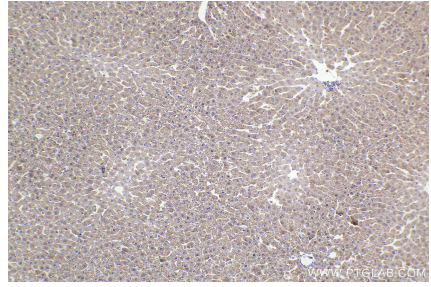
## Selected Validation Data



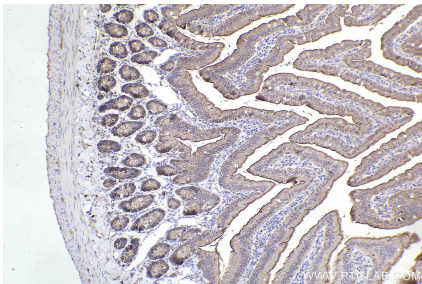
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using KHC2268 (CPS1 IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using KHC2268 (CPS1 IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat liver tissue slide using KHC2268 (CPS1 IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat small intestine tissue slide using KHC2268 (CPS1 IHC Kit).