

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

Catalog Number: **KHC1518**

## General Information

**Sample type:**  
FFPE tissue

**Cited sample type:**

**Reactivity:**  
Human, Mouse, Rat

**Cited Reactivity:**

**Assay type:**  
Immunohistochemistry

**Primary antibody type:**  
Rabbit Recombinant

**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.

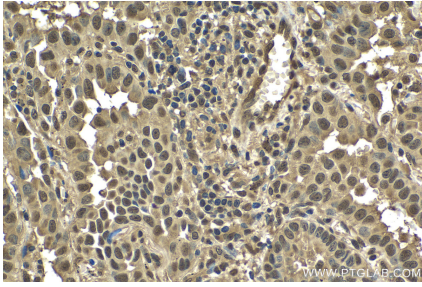
## Background

Ubiquitin B (UBB) is a member of ubiquitin family, one of the most conserved proteins known. Ubiquitin B is required for ATP-dependent, non-lysosomal intracellular protein degradation of abnormal proteins and normal proteins with a rapid turnover. Ubiquitin B is covalently bound to proteins to be degraded, and presumably labels these proteins for degradation. Ubiquitin also binds to histone H2A in actively transcribed regions but does not cause histone H2A degradation, suggesting that ubiquitin is also involved in regulation of gene expression. When polyubiquitin is free (unanchored-polyubiquitin), it also has distinct roles, such as in activation of protein kinases, and in signaling. This gene consists of three direct repeats of the ubiquitin coding sequence with no spacer sequence. Consequently, the protein is expressed as a polyubiquitin precursor with a final amino acid after the last repeat. Aberrant form of this protein has been noticed in patients with Alzheimer's and Down syndrome. Interestingly ubiquitin also becomes covalently bonded to many types of pathological inclusions which appear to be resistant to normal degradation.

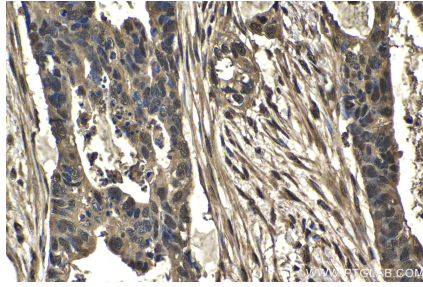
## Synonyms

FLJ25987, Polyubiquitin B, UBB, ubiquitin, ubiquitin B

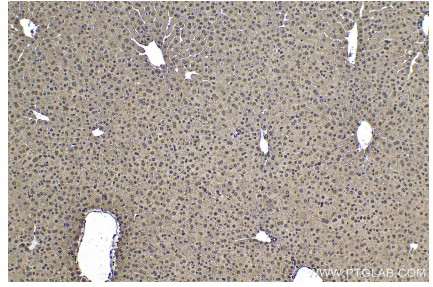
## Selected Validation Data



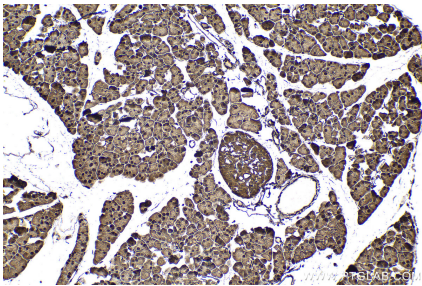
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using KHC1518 (UBB IHC Kit).



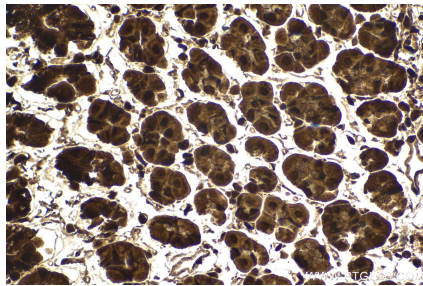
Immunohistochemical analysis of paraffin-embedded human urothelial carcinoma tissue slide using KHC1518 (UBB IHC Kit).



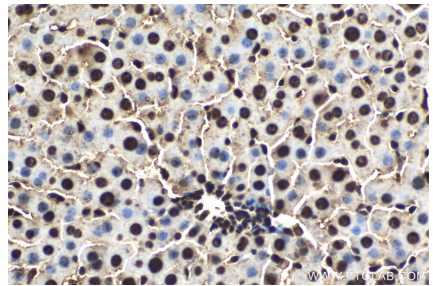
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using KHC1518 (UBB IHC Kit).



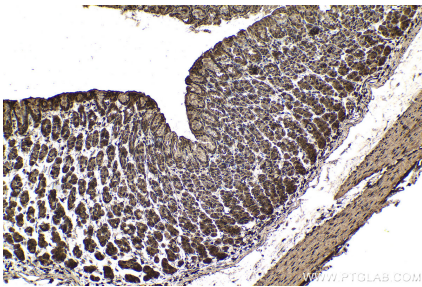
Immunohistochemical analysis of paraffin-embedded mouse pancreas tissue slide using KHC1518 (UBB IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse stomach tissue slide using KHC1518 (UBB IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat liver tissue slide using KHC1518 (UBB IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat stomach tissue slide using KHC1518 (UBB IHC Kit).