

# IHCeasy<sup>®</sup> Histone-H3 Ready-To-Use IHC Kit

Catalog Number: **KHC0568**

## 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.

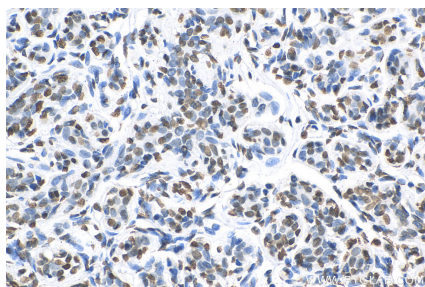
## Background

Histone-H3, histone cluster 2, H3a is the core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machinery which requires DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling. Histone-H3 is expressed during S phase; then expression strongly decreases as cell division slows down during the process of differentiation.

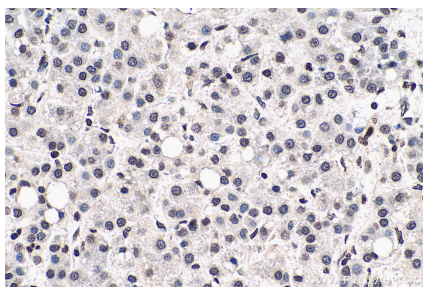
## Synonyms

H3/n, H3/o, H3F2, H3FM, HIST2H3A, HIST2H3C, HIST2H3D, histone, histone 3, histone cluster 2, H3a, Histone H3, Histone H3.2, Histone H3/m, Histone H3/o, Histone-H3

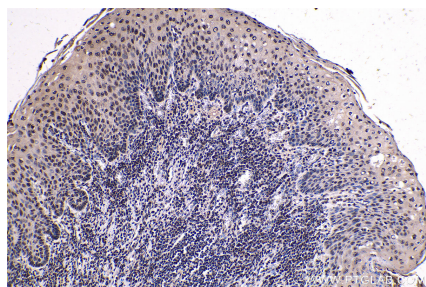
## Selected Validation Data



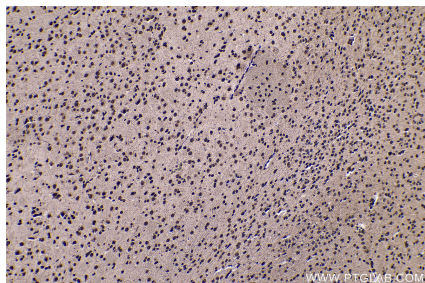
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using KHC0568 (Histone-H3 IHC Kit).



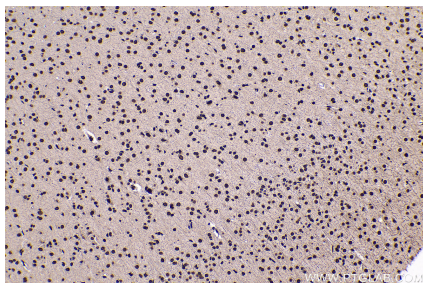
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using KHC0568 (Histone-H3 IHC Kit).



Immunohistochemical analysis of paraffin-embedded human oesophagus cancer tissue slide using KHC0568 (Histone-H3 IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using KHC0568 (Histone-H3 IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using KHC0568 (Histone-H3 IHC Kit).