

# IHCeasy<sup>®</sup> EGLN3 Ready-To-Use IHC Kit

Catalog Number: **KHC1935**

## 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.

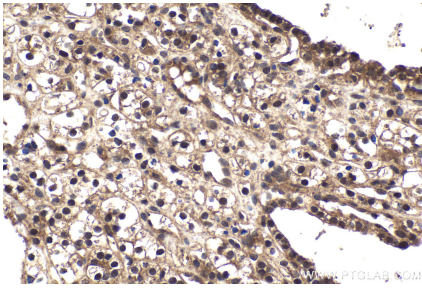
## Background

EGLN3, also named as HPH-1, HIF-PH3, HPH-3 and PHD3, is a cellular oxygen sensor that catalyzes, under normoxic conditions, the post-translational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. It hydroxylates a specific proline found in each of the oxygen-dependent degradation (ODD) domains (N-terminal, NODD, and C-terminal, CODD) of HIF1A. It is a regulator of cardiomyocyte and neuronal apoptosis. EGLN3 can be a prognostic marker for gastric cancer.

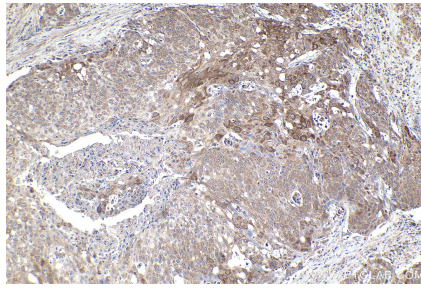
## Synonyms

PHD3, HIFPH3, HIF prolyl hydroxylase 3, HIF PH3, Egl nine homolog 3

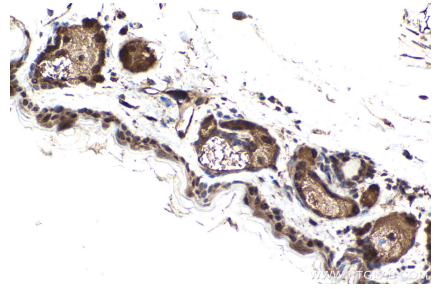
## Selected Validation Data



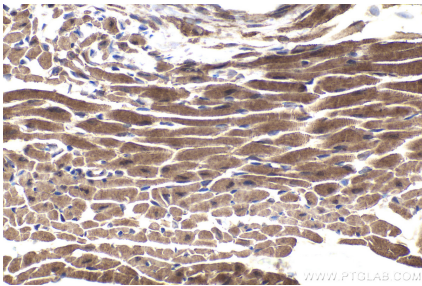
Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue slide using KHC1935 (EGLN3 IHC Kit).



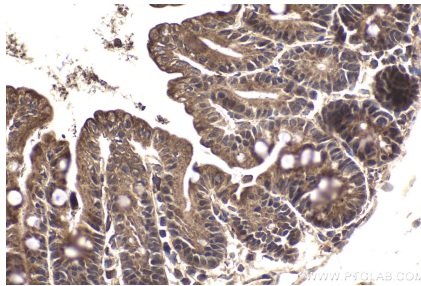
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using KHC1935 (EGLN3 IHC Kit).



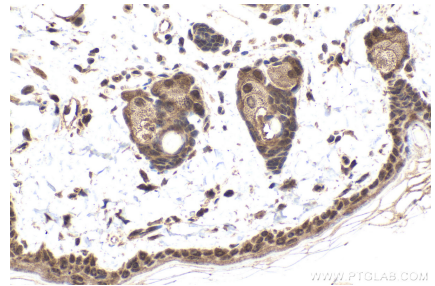
Immunohistochemical analysis of paraffin-embedded mouse skin tissue slide using KHC1935 (EGLN3 IHC Kit).



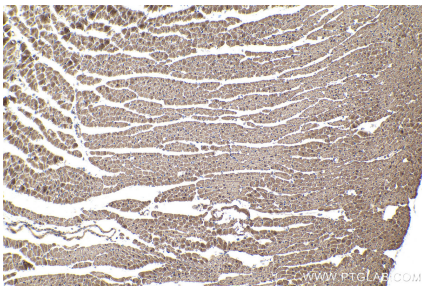
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using KHC1935 (EGLN3 IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse intestine tissue slide using KHC1935 (EGLN3 IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat skin tissue slide using KHC1935 (EGLN3 IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat heart tissue slide using KHC1935 (EGLN3 IHC Kit).