

# IHCeasy<sup>®</sup> NDUFS2 Ready-To-Use IHC Kit

Catalog Number: **KHC3149**

## 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

NDUFS2 (NADH:Ubiquinone Oxidoreductase Core Subunit S2), a key subunit of complex I in the mitochondrial electron transport chain (ETC), is essential for acute oxygen-sensing and hypoxic pulmonary vasoconstriction. Complex I is the largest multisubunit complex in ETC and is responsible for transferring electrons from NADH to ubiquinone while pumping protons from the mitochondrial matrix into the mitochondrial endomeric space. Functions of NDUFS2 are associated with growth, cell-membrane integrity, ROS generation, apoptosis, necrosis, Complex I respiration, and synthesis of ATP.

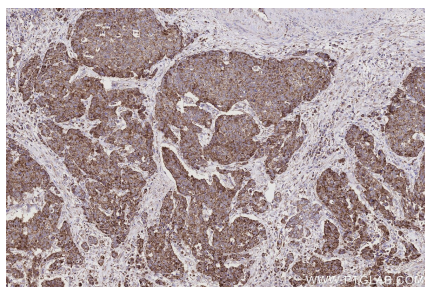
## Synonyms

CI 49kD, CI-49kD, Complex I 49kD, Complex I-49kD, EC:7.1.1.2

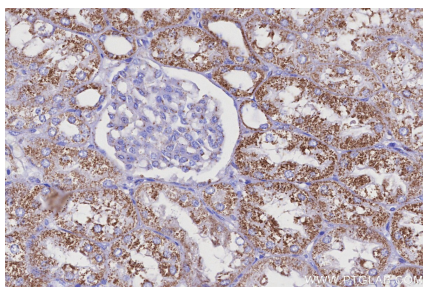
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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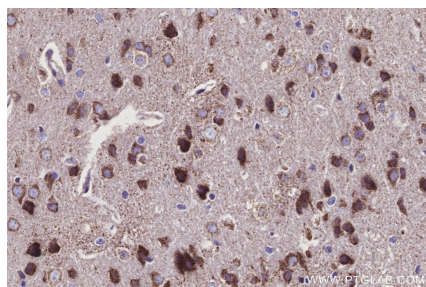
## Selected Validation Data



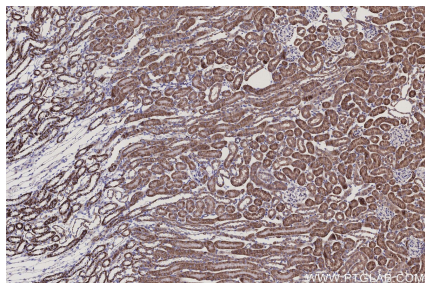
Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using KHC3149 (NDUFS2 IHC Kit).



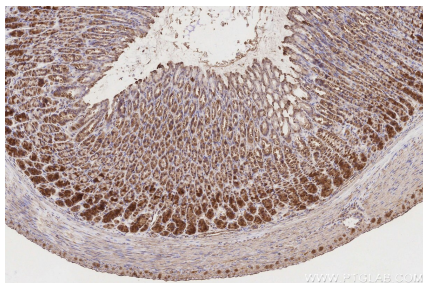
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using KHC3149 (NDUFS2 IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using KHC3149 (NDUFS2 IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using KHC3149 (NDUFS2 IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat stomach tissue slide using KHC3149 (NDUFS2 IHC Kit).