

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

Catalog Number: **KHC3255**

## 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.

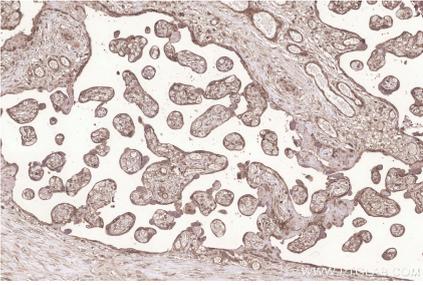
## Background

KARS (lysyl-tRNA synthetase) is a gene that encodes an enzyme critical for protein synthesis, specifically responsible for attaching the amino acid lysine to its corresponding transfer RNA (tRNA) in both the cytoplasm and mitochondria. This enzyme plays a crucial role in the process of aminoacylation, which is essential for accurate protein translation from mRNA sequences. Mutations in the KARS gene have been associated with a variety of neurological and systemic disorders, reflecting the enzyme's importance in cellular function.

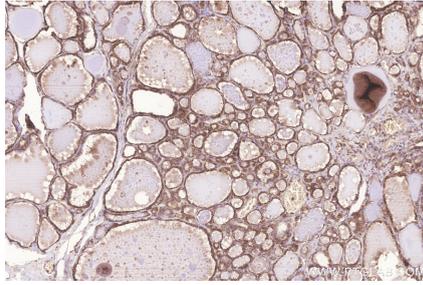
## Synonyms

EC:2.7.7.-, KARS1, KIAA0070, Lysine--tRNA ligase, Lysyl-tRNA synthetase

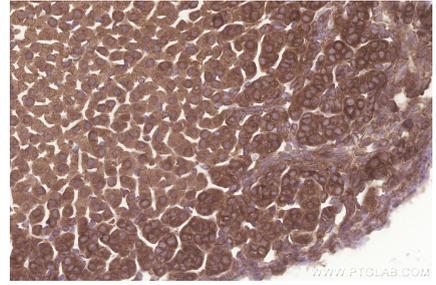
## Selected Validation Data



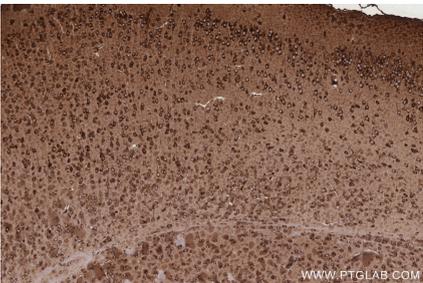
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using KHC3255 (KARS IHC Kit).



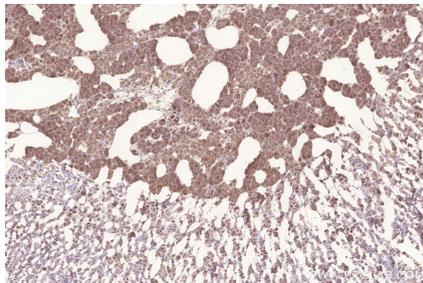
Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using KHC3255 (KARS IHC Kit).



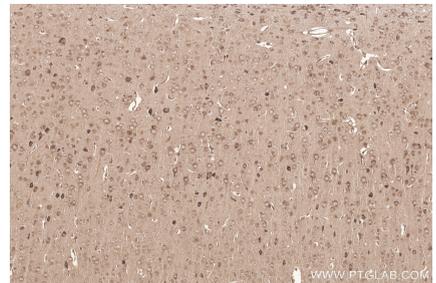
Immunohistochemical analysis of paraffin-embedded mouse adrenal gland tissue slide using KHC3255 (KARS IHC Kit).



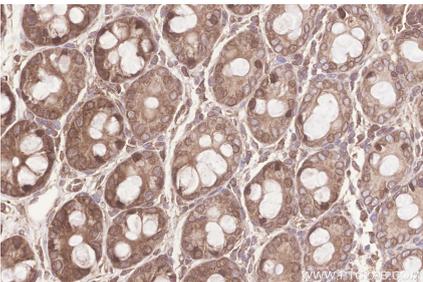
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using KHC3255 (KARS IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat adrenal gland tissue slide using KHC3255 (KARS IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using KHC3255 (KARS IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat colon tissue slide using KHC3255 (KARS IHC Kit).