

IHC*easy* GARS Ready-To-Use IHC Kit

Catalog Number: **KHC0879**

General Information

Sample type:
FFPE tissue
Cited sample type:
Reactivity:
Human, Mouse, Rat
Cited Reactivity:

Assay type:
Immunohistochemistry
Primary antibody type:
Mouse Monoclonal
Secondary antibody type:
Polymer-HRP-Goat anti-Mouse

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.

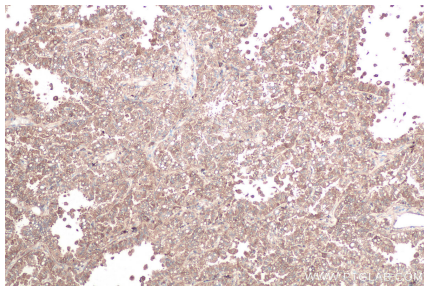
Background

Glycyl-tRNA synthetase 1 (GARS) is one of the aminoacyl-tRNA synthetases. It is essential for protein synthesis in all cells and tissues and charges tRNA molecules with glycine by catalyzing the ATP-dependent ligation of glycine to the 3'-end of its cognate tRNA via the formation of an aminoacyl-adenylate intermediate (Gly-AMP). GARS is located in cytoplasm, but also can be secreted from cells and as an extracellular protein which may influence cell signaling. Mutation of GARS causes peripheral neuropathies such as CMT2D, SMA, or associates with cancer. Two transcript variants encoding different isoforms have been found for this gene.

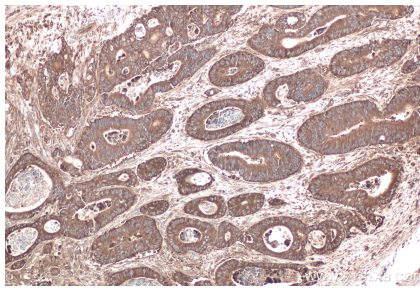
Synonyms

AP 4 A synthetase, CMT2D, DSMAV, GARS, Glycine tRNA ligase, glycyl tRNA synthetase, GlyRS, HMN5, SMAD1

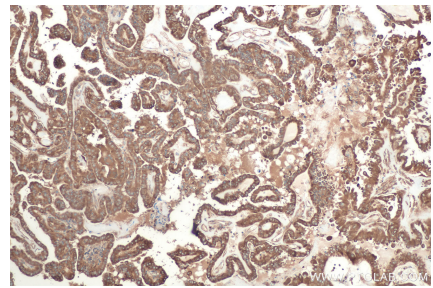
Selected Validation Data



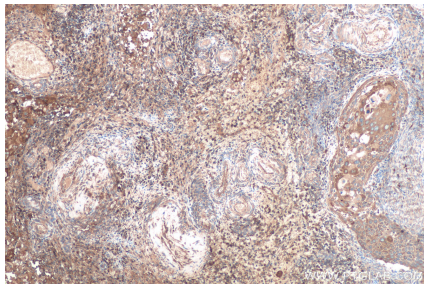
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using KHC0879 (GARS IHC Kit).



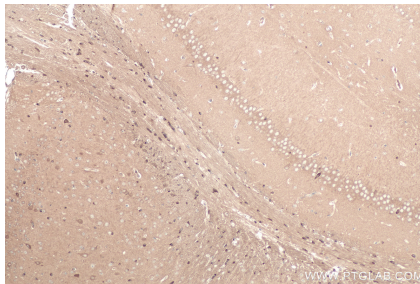
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using KHC0879 (GARS IHC Kit).



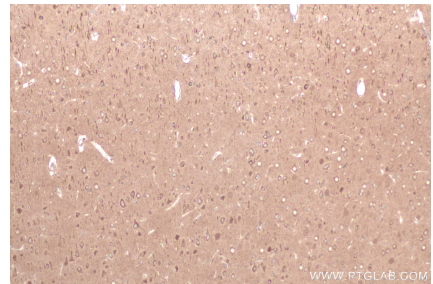
Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using KHC0879 (GARS IHC Kit).



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using KHC0879 (GARS IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using KHC0879 (GARS IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using KHC0879 (GARS IHC Kit).