

IHCeasy[®] GCDH Ready-To-Use IHC Kit

Catalog Number: **KHC3309**

General Information

Sample type:
FFPE tissue

Cited sample type:

Reactivity:
Human, Mouse

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.

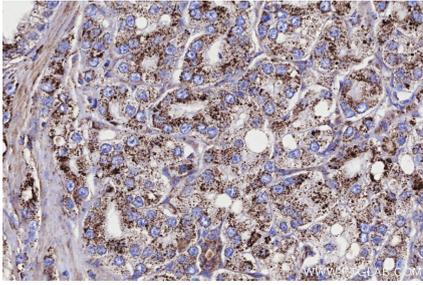
Background

GCDH is a nuclear-encoded mitochondrial protein involved in the catabolic pathway of tryptophan, lysine and hydroxylysine. The functional enzyme is a homotetramer of 43.3 kDa subunits that resides in the mitochondrial matrix. GCDH activity reduction leads to predominant accumulation of glutaric (GA) and 3- hydroxyglutaric (3HGA) acids in tissues, mostly brain, and biological fluids of affected patients. GCDH is widely expressed and has the highest levels in liver and kidney, which is consistent with its role in amino acid oxidation.

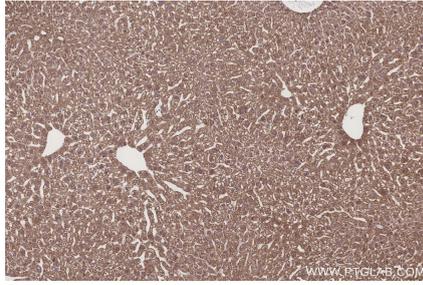
Synonyms

ACAD5, EC:1.3.8.6, GCD, Glutaryl-CoA dehydrogenase, mitochondrial

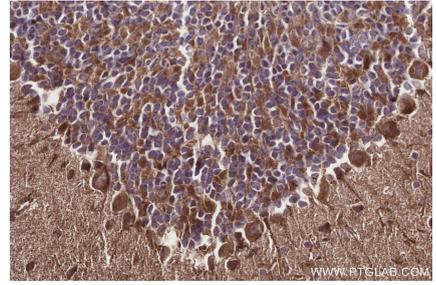
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using KHC3309 (GCDH IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using KHC3309 (GCDH IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using KHC3309 (GCDH IHC Kit).