



IHCeasy PRKAG1 Ready-To-Use IHC Kit

Catalog Number: KHC2324

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.

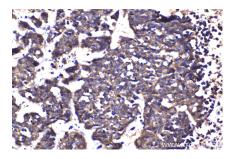
Background

Protein kinase, AMP-activated, gamma 1 non-catalytic subunit (PRKAG1, synonyms: AMPKG, MGC8666) is a regulatory subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an catalytic subunit, and non-catalytic and subunits. AMPK is an important energy-sensing enzyme that monitors cellular energy status. In response to cellular metabolic stresses, AMPK is activated, and thus phosphorylates and iAMP-activated protein kinase (AMPK) is a highly conserved heterotrimeric serine/threonine kinase widely characterised as a sensor of cellular energetic stress. AMPK is a heterotrimeric complex consisting of a catalytic a-subunit and two regulatory subunits (β and γ). AMPK is an important energy-sensing enzyme that monitors cellular energy status. In response to cellular metabolic stresses, AMPK is activated, and thus phosphorylates and inactivates acetyl-CoA carboxylase (ACC) and beta-hydroxy beta-methylglutaryl-CoA reductase (HMGCR), key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. AMPK gamma 1 is one of the gamma regulatory subunits of AMPK.

Synonyms

AMPK Gamma 1, 5'-AMP-activated protein kinase subunit gamma-1, AMPKG, AMPK subunit gamma-1, AMPK subunit gamma 1

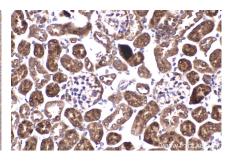
Selected Validation Data



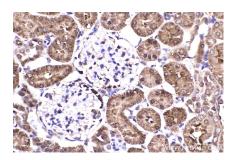
Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using KHC2324 (PRKAG1 IHC Kit).



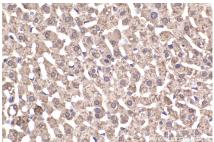
Immunohistochemical analysis of paraffinembedded mouse liver tissue slide using KHC2324 (PRKAG1 IHC Kit).



Immunohistochemical analysis of paraffinembedded mouse kidney tissue slide using KHC2324 (PRKAG1 IHC Kit).



Immunohistochemical analysis of paraffinembedded rat kidney tissue slide using KHC2324 (PRKAG1 IHC Kit).



Immunohistochemical analysis of paraffinembedded rat liver tissue slide using KHC2324 (PRKAG1 IHC Kit).