



# IHCeasy® PRKAR1A Ready-To-Use IHC Kit

Catalog Number: KHC2175

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.

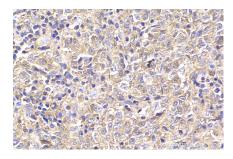
### Background

PKA is a heterotetramer inactive kinase composed of two regulatory and two catalytic submits. The regulatory subunits are encoded by four genes (PRKAR1A, PRKAR2A, PRKAR1B, and PRKAR2B). PRKAR1A, a gene coding for the cAMP-dependent protein kinase (PKA) 1 a regulatory submit, is located on human chromosome 17q22-24. PRKAR1A protein insufficiency and PKA dysregulation have been implicated in various types of disorders, including Albright hereditary osteodystrophy (AHO), pseudohypoparathyroidism (PHP), acrodysostosis (ACRDYS), and Carney complex. PRKAR1A protein expression level was significantly dysregulated in multiple primary carcinomas and distant metastases, such as cardiac myxomas, odontogenic myxomas, anaplastic thyroid carcinomas, breast cancer, pediatric pituitary adenomas, and Schwann cell tumors.

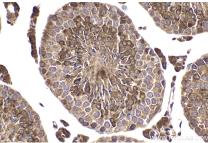
# Synonyms

CAR, CNC, CNC1, PKR1, PPNAD1, PRKAR1, PRKAR1A, Tissue specific extinguisher 1, TSE1

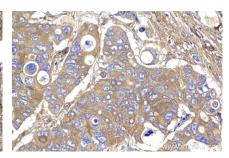
#### **Selected Validation Data**



Immunohistochemical analysis of paraffinembedded human malignant melanoma tissue slide using KHC2175 (PRKAR1A IHC Kit).



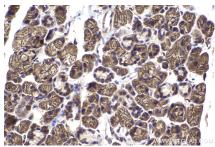
Immunohistochemical analysis of paraffinembedded mouse testis tissue slide using KHC2175 (PRKAR1A IHC Kit).



Immunohistochemical analysis of paraffinembedded human stomach cancer tissue slide using KHC2175 (PRKAR1A IHC Kit).



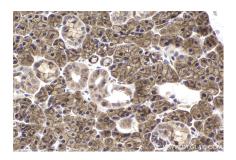
Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using KHC2175 (PRKAR1A IHC Kit).



Immunohistochemical analysis of paraffinembedded mouse salivary gland tissue slide using KHC2175 (PRKAR1A IHC Kit).



Immunohistochemical analysis of paraffinembedded rat testis tissue slide using KHC2175 (PRKAR1A IHC Kit).



Immunohistochemical analysis of paraffinembedded rat salivary gland tissue slide using KHC2175 (PRKAR1A IHC Kit).