

# IHC*easy* PPP3CA Ready-To-Use IHC Kit

Catalog Number: **KHC1027**

## 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.

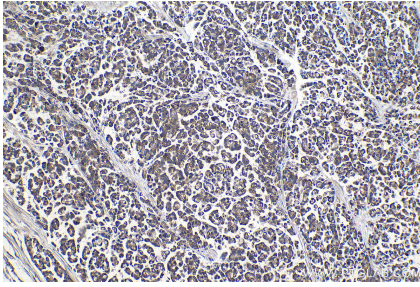
## Background

PPP3CA, also called calcineurin A $\alpha$ , is the only serine/threonine protein phosphatase under the control of Ca<sup>2+</sup>/calmodulin, and plays a critical role in the coupling of Ca<sup>2+</sup> signals to cellular responses. Ca<sup>2+</sup> signaling plays a central role in hypertrophic growth of cardiac and skeletal muscle in response to mechanical load and a variety of signals. Therefore, PPP3CA plays an important role in muscle differentiation, especially in muscle fiber type conversion. It is also involved in osteoclast regulation, regulating bone formation through an effect on osteoblast differentiation.

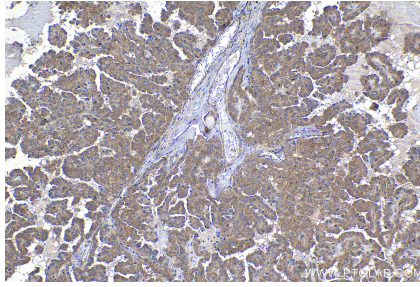
## Synonyms

CALN, CALNA, CALNA1, CAM PRP catalytic subunit, CCN1, CNA, CNA1, PPP2B, PPP3CA

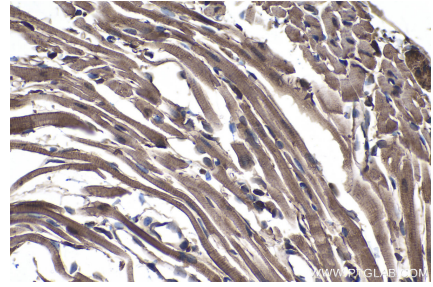
## Selected Validation Data



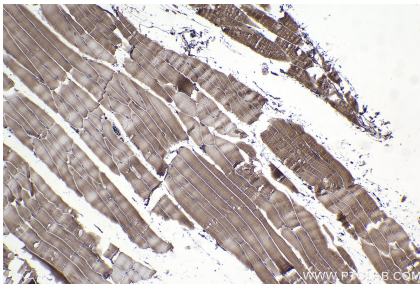
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using KHC1027 (PPP3CA IHC Kit).



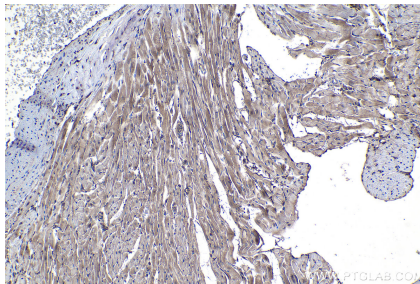
Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using KHC1027 (PPP3CA IHC Kit).



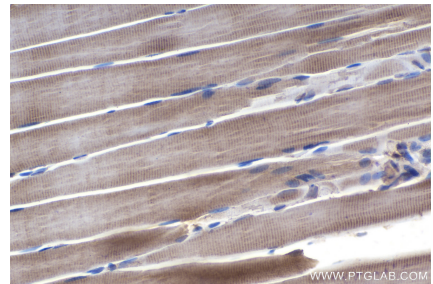
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using KHC1027 (PPP3CA IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using KHC1027 (PPP3CA IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat heart tissue slide using KHC1027 (PPP3CA IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat skeletal muscle tissue slide using KHC1027 (PPP3CA IHC Kit).