

# IHC*easy* MICAL2 Ready-To-Use IHC Kit

Catalog Number: **KHC1484**

## 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

MICALs (Molecules Interacting with CasL) are atypical multidomain flavoenzymes with diverse cellular functions. There are three known isoforms, MICAL1, MICAL2, and MICAL3, as well as the MICAL-like proteins MICAL-L1 and MICAL-L2. MICAL2 has three conserved domains: an N-terminal flavin adenine dinucleotide (FAD) binding domain, a calponin homology (CH) domain, and a Lin11, Isl-1, and Mec-3 (LIM) domain. It has been demonstrated that MICAL2 could regulate actin stress fibers and is required for normal actin organization. In addition, MICAL2-PV, a novel splicing variant of MICAL2, has been reported to be involved in cancer progression of prostate cancer. The primary antibody in this kit can recognize both MICAL2 and MICAL2-PV.

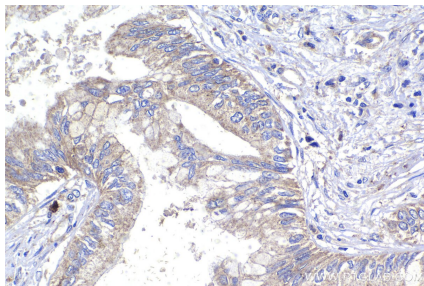
## Synonyms

KIAA0750, MICAL2, MICAL2PV1, MICAL2PV2, Protein MICAL 2

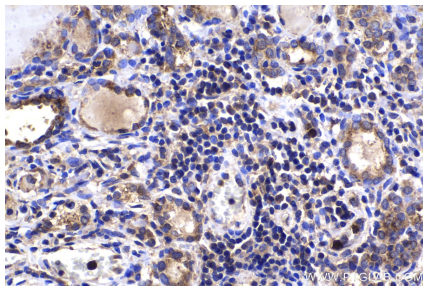
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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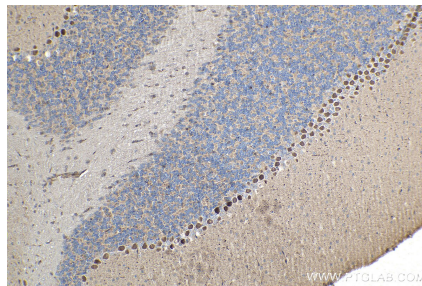
## Selected Validation Data



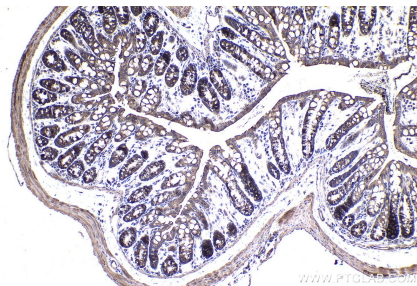
Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using KHC1484 (MICAL2 IHC Kit).



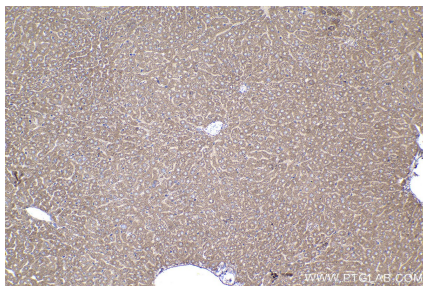
Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using KHC1484 (MICAL2 IHC Kit).



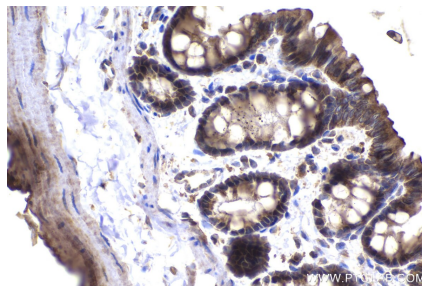
Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using KHC1484 (MICAL2 IHC Kit).



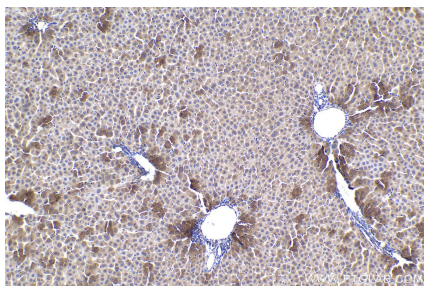
Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using KHC1484 (MICAL2 IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using KHC1484 (MICAL2 IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat colon tissue slide using KHC1484 (MICAL2 IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat liver tissue slide using KHC1484 (MICAL2 IHC Kit).