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## Rabbit Anti-Parafibromin/HRPT2/CDC73 [MD359R]: RM0413, RM0413RTU7

Intended Use: For Research Use Only

**Description:** Parathyroid tumors are heterogeneous and diagnosis of the disease is often difficult. The Parafibromin protein may be important as a marker for diagnosing parathyroid carcinoma. Parafibromin is encoded by the endocrine tumor suppressor gene CDC73 (cell division cycle 73, Paf1/RNA polymerase II complex component), alternatively known as the HRPT2 (hyperparathyroidism-jaw tumor syndrome 2) gene. The human CDC73 gene, which maps to chromosome 1q25, is the human homolog of Saccharomyces cerevisiae Cdc73 and is responsible for the hyperparathyroidism with jaw tumor syndrome (HPT-JT). Parafibromin is part of the RNA polymerase II/Paf1 complex, which is crucial for histone modification. This Parafibromin complex binds to both the nonphosphorylated forms and the Ser 2 and Ser 5 phosphorylated forms of the RNA polymerase II large subunit.

## **Specifications**

Clone: MD359R Source: Rabbit Isotype: IgG

Reactivity: Human, mouse, rat

Immunogen: Human Parafibromin protein

Localization: Nucleus

Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)

Storage: Store at 2°- 8°C Applications: IHC, WB

Package:

Description	Catalog No.	Size	
Parafibromin/HRPT2/CDC73 Concentrated	RM0413	1 ml	
Parafibromin/HRPT2/CDC73 Prediluted	RM0413RTU7	7 ml	

## IHC Procedure\*

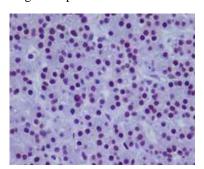
Positive Control Tissue: Colon, breast, adrenal, parathyroid, testis, cervix, lymphoblastic Lymphoma

Concentrated Dilution: 25-100

Pretreatment: Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C

Incubation Time and Temp: 30-60 minutes @ RT

Detection: Refer to the detection system manual \* Result should be confirmed by an established diagnostic procedure.



FFPE human colon stained with anti-Parafibromin using DAB

## References:

- 1. Characterization of the Human Transcription Elongation Factor Rtf1: Evidence for Nonoverlapping Functions of Rtf1 and the Paf1 Complex. Cao, OF. et al. Mol. Cell. Biol.. 35: 3459-70, 2015.
- 2. Characterization of a new CDC73 missense mutation that impairs Parafibromin expression and nucleolar localization. Masi, G. et al. PLoS ONE. 9: e97994, 2014.
- 3. Hyperparathyroidism-jaw tumor syndrome: Results of operative management. Mehta, A. et al. Surgery. 156: 1315-24, 2014.
- 4. Negative parafibromin staining predicts malignant behavior in atypical parathyroid adenomas. Kruijff, S. et al. Ann. Surg. Oncol.. 21: 426-33, 2014.

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Rev. A

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