

Mouse Anti-Parafibromin/HRPT2/CDC73 [2H1]: MC0178, MC0178RTU7

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

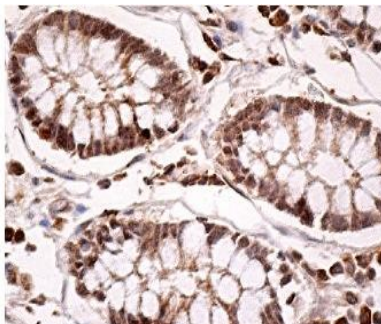
Clone:	2H1
Source:	Mouse
Isotype:	IgG1k
Reactivity:	Human, mouse, rat
Immunogen:	Mouse Parafibromin aa 87-100
Localization:	Nucleus
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, IF, IP, WB
Package:	

Description	Catalog No.	Size
Parafibromin/HRPT2/CDC73 Concentrated	MC0178	1 ml
Parafibromin/HRPT2/CDC73 Prediluted	MC0178RTU7	7 ml

IHC Procedure*

Positive Control Tissue:	Colon, breast, adrenal, parathyroid, testis, cervix, lymphoblastic Lymphoma
Concentrated Dilution:	10-50
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, QF. 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.