

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

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.

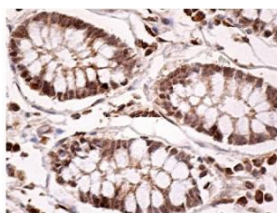
Specifications

Clone: 2H1
 Source: Mouse
 Reactivity: Human, mouse, rat
 Isotype: IgG1k
 Localization: Nucleus
 Formulation: Purified 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

IHC Procedure*

Positive Control Tissue: Colon, 293T, A431, H1299, HepG2, MOLT4 and Raji cell lysates
 Concentrated Dilution: 50-200
 Pretreatment: Citrate pH6.0, or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using 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.
5. CDC73 intragenic deletion in familial primary hyperparathyroidism associated with parathyroid carcinoma. Korpi-Hyövälti, E. et al. J. Clin. Endocrinol. Metab.. 99: 3044-8, 2014.