Enable Innovation DATA SHEET

Rabbit Anti-Histone H3 Phospho/PHH3 (pSer10) [MD111R]: RM0464, RM0464RTU7

Intended Use: For Research Use Only

Description: Phosphohistone-H3 (PHH3) is a core histone protein, which together with other histones forms the major protein constituents of the chromatin in eukaryotic cells. In mammalian cells, phosphohistone H3 is negligible during interphase but reaches a maximum for chromatin condensation during mitosis. Immunohistochemical studies showed anti-PHH3 detected specifically the core protein histone H3 only when phosphorylated at serine 10. Studies have also revealed no phosphorylation on the histone H3 during apoptosis. Therefore, PHH3 can serve as a mitotic marker to separate mitotic figures from apoptotic bodies and karyorrhectic debris, which may be a very useful tool in diagnosis of tumor grades, especially in CNS, skin, Gyn., Soft tissue, and GIST.

Specifications

Clone: MD111R
Source: Rabbit
Isotype: IgG
Reactivity: Human

Immunogen: Synthetic peptide to phosphorylated histone H3 (PHH3) residues aa1-100 (pSer10)

Localization: Nucleus

Formulation: Purified antibody in PBS pH7.4, containing 0.2% BSA and ≤ 0.09% sodium azide (NaN3)

Storage: Store at 2 - 8°C

Applications: IHC

Package:

Description	Catalog No.	Size	
Histone H3 Phospho/PHH3 (pSer10) Concentrated	RM0464	1 ml	
Histone H3 Phospho/PHH3 (pSer10) Prediluted	RM0464RTU7	7 ml	

IHC Procedure*

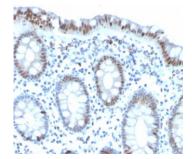
Positive Control Tissue: Breast cancer, tonsil

Concentrated Dilution: 50-200

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-PHH3 using DAB

References:

- 1. PHH3 and survivin are co-expressed in high-risk endometrial cancer and are prognostic relevant. Brunner A, et al. Br J Cancer. 2012 Jun 26;107(1):84-90.
- 2. Scoring the percentage of Ki67 positive nuclei is superior to mitotic count and the mitosis marker phosphohistone H3 (PHH3) in terms of differentiating flat lesions of the bladder mucosa. Gunia S, et al. J Clin Pathol. 2012 Aug; 65(8):715-20.
- 3. Clear cells are associated with proliferative activity in ependymoma: a quantitative study. Ishizawa K, et al. Clin Neuropathol. 2012 May-Jun;31(3):146-51.
- 4. Immunohistochemical dual staining as an adjunct in assessment of mitotic activity in melanoma. Ikenberg K, et al. J Cutan Pathol. 2012 Mar;39(3):324-30.

Doc. 100-RM0464

Rev. A

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