

Rabbit Anti-PHH3 [Polyclonal]: RC0305

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 or serine 28. 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

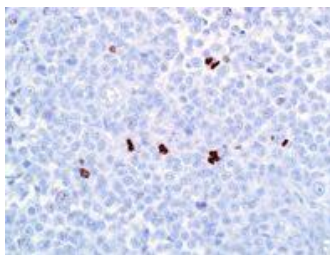
Clone: Polyclonal
 Source: Rabbit
 Isotype: IgG
 Reactivity: Human
 Localization: Nucleus
 Formulation: Antibody in PBS pH7.4, containing 0.2% BSA and <= 0.09% sodium azide (NaN3)
 Storage: Store at 2 - 8°C
 Applications: IHC
 Package:

Description	Catalog No.	Size
PHH3 Polyclonal Concentrated	RC0305	1 ml
PHH3 Polyclonal Prediluted	RC0305RTU7	7 ml

IHC Procedure*

Positive Control Tissue: Breast cancer, tonsil
 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 tonsil 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.
5. Prognostic importance of the mitotic marker phosphohistone H3 in cutaneous nodular melanoma. Ladstein RG, et al. J Invest Dermatol. 2012 Apr;132(4):1247-52.