

Polyclonal antibody against Phosphohistone-H3 (PHH3)

Clone no. -

MONOSAN

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Product name	Polyclonal antibody against Phosphohistone-H3 (PHH3)
Host	Rabbit
Applications	IHC-P (1:100-1:500)
Species reactivity	human
Conjugate	-
Immunogen	Unknown or proprietary to MONOSAN and/or its suppliers
Isotype	-
Clonality	Polyclonal
Clone number	-
Size	1 ml
Concentration	n/a
Format	-
Storage buffer	Tris Buffer, pH 7.3-7.7, containing 1% BSA and <0.1% Sodium Azide
Storage until expiry date	2-8°C

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES

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**Additional info**

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 specifically detected 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. 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.

**References**

1. Gurley LR, et al. Eur J Biochem 1978; 84:1-15
2. Hendzel MJ, et al. J Biol Chem 1998; 273:24470-8
3. Colman H, et al. Am J Surg Pathol. 2006; 30:657-64
4. Nasr MR, et al. Am J Dermatopathol. 2008; 30:117-22
5. Kim YJ, et al. Am J Clin Pathol. 2007; 128:118-25

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