

## Phosphohistone H3 (PHH3) Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50087

Clone# BP6092

**Predicted Molecular Wt:** 15kDa  
**Species Cross-reactivity:** Human  
**Applications:** IHC-P

**Purity:** ProA affinity purified IgG  
**Form:** Liquid  
**Swissprot ID:** P68431

### Background:

Phosphohistone H3 (PHH3) is a marker specific for cells undergoing mitosis. Serine 10 of Histone H3 is phosphorylated in association with mitotic chromatin condensation in late G2 and M phase of the cell cycle and thus, PHH3 can distinguish mitosis from apoptotic nuclei.

The range of percentage PHH3 positive tumor nuclei was from 0.0 to 6.6% (median value 0.8%). Increased expression of PHH3 was significantly associated with tumor thickness ( $p = 0.031$ ), presence of tumor ulceration ( $p = 0.041$ ) and tumor necrosis ( $p = 0.027$ ), but not with Clark's level of invasion. High levels of PHH3 was associated with increased mitotic count ( $p = 0.003$ ) and high Ki-67 expression ( $p = 0.002$ ).

For central nervous system tumors, melanoma, soft tissue tumors, GIST, etc., PHH3 mAb is helpful for tumor pathological classification and prognosis.

### Subcellular location:

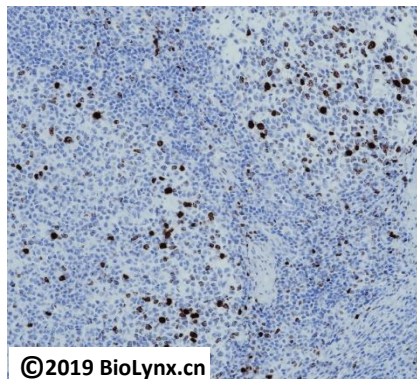
Nucleus

### Recommended method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

### Immunogen:

Synthetic peptide corresponding to Phosphohistone H3 (PHH3) residues within aa1-100 (phospho S10) was used as an immunogen.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections analysis of tonsil tissue labelling Phosphohistone H3 (PHH3) with BP6092. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0

### Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

### Storage conditions:

-20°C

### Storage instructions:


Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

### Recommended Dilutions:

IHC-P: 1:100-1:200

### Background References:

1. Thareja S, et al. Am J Dermatopathol. 2014 Jan; 36(1):64-7.
2. Casper DJ, et al. Am J Dermatopathol. 2010 Oct; 32(7):650-4.

Product QC'd by: 

For research use only. Not for use in diagnostic or therapeutic applications.