

## Recombinant Histone H3, phosphorylated (pSer10) (Nuclear Marker) Antibody

Mouse Monoclonal Antibody [Clone rPHH3/6824]

Catalog No	Format	Size
8350-MSM4-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
8350-MSM4-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
8350-MSM4-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

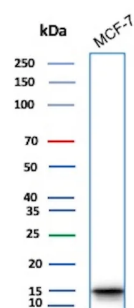
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

### Product Details

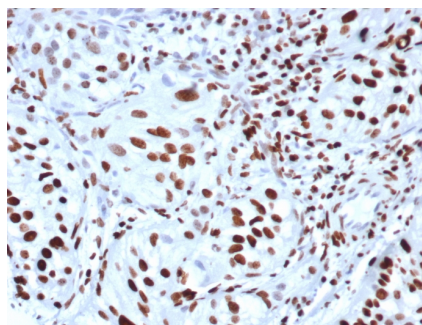
<b>Clone</b>	rPHH3/6824
<b>Gene Name</b>	H3C1, H3C10, H3C11, H3C12, H3C2, H3C3, H3C4, H3C6, H3C7, H3C8
<b>Immunogen</b>	A synthetic peptide corresponding to (ARK-pS-TGGKAPRKQLc) of Phosphohistone H3 (phospho S10)
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG1 / Kappa
<b>Mol. Weight of Antigen</b>	15kDa
<b>Cellular Localization</b>	Chromosome, Nucleus
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	Human tonsil, liver or breast carcinoma, MCF-7

\*Optimal dilution for a specific application should be determined.

### Product Images for Recombinant Histone H3, phosphorylated (pSer10) (Nuclear Marker) Antibody



Western Blot Analysis of Human MCF-7 lysate using Phosphohistone H3 Mouse Recombinant Monoclonal Antibody (rPHH3/6824).



Formalin-fixed, paraffin-embedded human bladder stained with Histone H3 (PHH3) Recombinant Mouse Monoclonal Antibody (rPHH3/6824).

### Specificity & Comments

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.

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### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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### Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 1mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

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### Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

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### Research Areas

Cytokine Signaling, Developmental Biology, Immunology, Infectious Disease, Signal Transduction, Transcription Factors

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