

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

Mouse Monoclonal Antibody [Clone MSVA-903M]

Catalog No	Format	Size
8350-MSM17-P0	Purified Ab with BSA and Azide	20 ug
8350-MSM17-P1	Purified Ab with BSA and Azide	100 ug

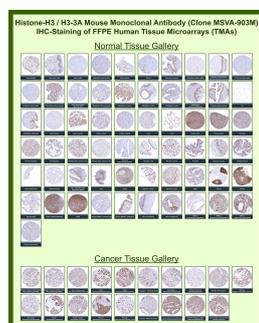
Applications	Tested Dilution	Note
Immunohistochemistry (IHC)	1:100-1:200	Manual Protocol: Freshly cut sections should be used (less than 10 days between cutting and staining). Heat-induced antigen retrieval for 5 minutes in an autoclave at 121°C in pH 7.8 Target Retrieval Solution buffer. Apply the antibody at a dilution of 1:50 at 37°C for 60 minutes. Visualization of bound antibody by the EnVision Kit (Dako, Agilent) according to the manufacturer's directions.

### Product Details

<b>Clone</b>	MSVA-903M
<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>	IgG2b / Kappa
<b>Mol. Weight of Antigen</b>	15kDa
<b>Cellular Localization</b>	Chromosome, Nucleus
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	Lymph node: A strong nuclear Histone H3 staining should be seen in all cells while strongest staining intensity occurs in cells of germinal centres.

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

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



Histone H3.1 Mouse Recombinant Monoclonal Antibody (MSVA-903M) tested on many normal and cancer tissues. The immunohistochemistry staining in these tissues aligns with the expression data in Human Protein Atlas.

### 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.

### Supplied As

Ab produced in CHO cell mammalian-based expression system. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide.

### 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.

### Research Areas

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

## 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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