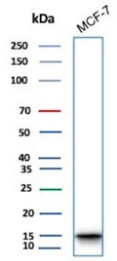
Phospho-Histone H3 Antibody (pS10) [clone rPHH3/6824] (V9213)

Catalog No.	Formulation	Size
V9213-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9213-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9213SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

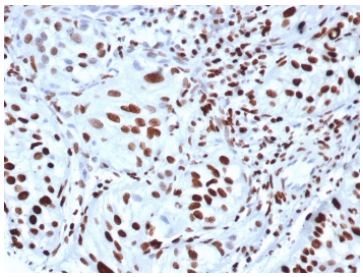
Recombinant MOUSE MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rPHH3/6824
Purity	Protein A/G affinity
UniProt	P68431
Localization	Nucleus, Chromosome
Applications	Immunohistochemistry (FFPE): 1-2ug/ml Western blot: 2-4ug/ml
Limitations	This phospho-Histone H3 antibody is available for research use only.



Western blot testing of human MCF7 cell lysate with phospho-Histone H3 antibody.



IHC staining of FFPE human bladder tissue with phospho-Histone H3 antibody (clone rPHH3/6824). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

Description

Phospho-Histone H3 Antibody (pS10) detects Phosphohistone H3 (PHH3), 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 Clarks 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. This antibody is part of a broader collection of Histone H3 antibodies used to study chromatin structure, histone modifications, and epigenetic regulation.

Application Notes

Optimal dilution of the phospho-Histone H3 antibody should be determined by the researcher.

Immunogen

Amino acids ARK(pS)TGGKAPRKQLc) were used as the immunogen for the phospho-Histone H3 antibody.

Storage

Aliquot the phospho-Histone H3 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com

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