

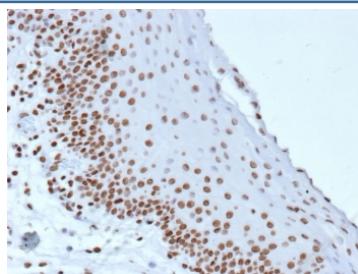
## Phosphorylated Histone H3 Antibody / pS10 [clone rHH3/9924] (V5817)

Catalog No.	Formulation	Size
V5817-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5817-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5817SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

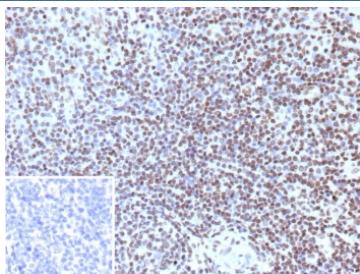
Recombinant RABBIT MONOCLONAL

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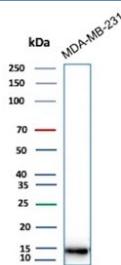
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Rabbit Monoclonal
Isotype	Mouse IgG2b, kappa
Clone Name	rHH3/9924
UniProt	P68431
Localization	Nucleus
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml Western Blot : 2-4ug/ml
Limitations	This Phosphorylated Histone H3 antibody is available for research use only.



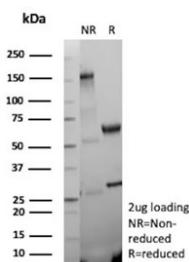
IHC staining of FFPE human tonsil tissue with Phosphorylated Histone H3 antibody (clone rHH3/9924). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human tonsil tissue with Phosphorylated Histone H3 antibody (clone rHH3/9924). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Western blot testing of human MDA-MB-231 cell lysate with Phosphorylated Histone H3 antibody.



SDS-PAGE analysis of purified, BSA-free Phosphorylated Histone H3 antibody (clone rHH3/9924) as confirmation of integrity and purity.

## Description

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.

## Application Notes

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

## Immunogen

Amino acids ARK-pS-TGGKAPRKQLc of Phosphohistone H3 (phospho S10) were used as the immunogen for the Phosphorylated Histone H3 antibody.

## Storage

Aliquot the Phosphorylated Histone H3 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.

