

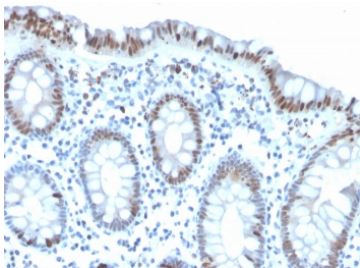
PHH3 Antibody / Histone H3 (pSer10) [clone PHH3/471R] (V8647)

Catalog No.	Formulation	Size
V8647-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8647-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8647SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Recombinant **RABBIT MONOCLONAL**

[Bulk quote request](#)

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Rabbit Monoclonal
Isotype	Mouse IgG2a, kappa
Clone Name	PHH3/471R
Purity	Protein G affinity chromatography
UniProt	P68431
Localization	Nucleus
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT
Limitations	This PHH3 antibody is available for research use only.



IHC staining of FFPE human colon with PHH3 antibody. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

Description

PHH3 Antibody 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 recombinant PHH3 antibody should be determined by the researcher.

Immunogen

A synthetic peptide corresponding to the amino acids surrounding phospho S10 were used as the immunogen for the recombinant PHH3 antibody.

Storage

Store the recombinant PHH3 antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).