



Rabbit Anti-Human Histone H3 (Phospho S10) Monoclonal Antibody, clone CQ7103 (CABT-Z257R)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Synthetic peptide corresponding to Phosphohistone H3 (PHH3) residues within aa1-100 (phospho S10) was used as an immunogen.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	CQ7103
Purification	ProA affinity purified IgG.
Conjugate	Unconjugated
Applications	IHC-P Recommended concentration: IHC-P: 1:100-1:200
Molecular Weight	15 kDa
Cellular Localization	Nucleus
Positive Control	Tonsil Tissue
Format	Liquid
Concentration	Lot specific

Size	100 μ l
Buffer	PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.
Preservative	0.01% Sodium azide
Storage	Store at -20 °C. Avoid freeze/thaw cycles.
Ship	Wet ice

BACKGROUND

Introduction	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.
Keywords	H3.3B; H3F3A; H3 histone; H3 histone family member E pseudogene; H3.3A; H33; H3F3; H3f3b; HIST3H3; Histone H3 3 pseudogene; Histone H3.3; PP781

GENE INFORMATION

Gene Name	Histone H3
Entrez Gene ID	8350
UniProt ID	P68431