

Product datasheet for TA420193

HISTIH3F Rat Monoclonal Antibody [Clone ID: 6C7G12]

Product data:

Product Type:	Primary Antibodies
Clone Name:	6C7G12
Applications:	WB
Reactivity:	Broad
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	A peptide containing phosphorylated threonine 32 of human histone H3.1
Specificity:	HISTONE H3 (pThr32)
Formulation:	Phosphate buffered saline containing 0.035% Sodium Azide (NaN ₃)30% Glycerol Label: Purified State: Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant Purified IgG - liquid
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	+4°C, -20°C if preferred
Stability:	Shelf life: one year from despatch.
Gene Name:	histone cluster 1, H3f
Database Link:	P68431



Background:

Rat anti Human histone H3 (pThr32) antibody, clone 6C7G12 recognizes histone H3 when phosphorylated at threonine 32. Histone H3 is one of the four core histones that make up the nucleosome core particle. Nucleosomes are the smallest subunit of chromatin and are made up of 146 bp of DNA wrapped around an octamer comprised of pairs of the four core histones (H2A, H2B, H3, and H4) (Smith, 1991). Histones may be modified in several ways including acetylation, methylation, phosphorylation, ubiquitination, glycosylation, and SUMOylation. Phosphorylation of histone H3 at threonine 32 has been shown to be enhanced in cells undergoing mitosis and is thought to play a distinct role due to its unique distribution across chromosomes compared to other histone H3 phosphorylation events (Hans and Dimitrov, 2001). Wide species cross-reactivity is expected from Rat anti Human histone H3 (pThr32) antibody based on sequence.

Synonyms:

H3/a; H3/b; H3/c; H3/d; H3/f; H3/h; H3/i; H3/j; H3/k; H3/l; H3FA; H3FB; H3FC; H3FD; H3FF; H3FH; H3FI; H3FJ; H3FK; H3FL