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Product datasheet for TA420194

HIST1H3F Rat Monoclonal Antibody [Clone ID: 6G8B7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	6G8B7
Applications:	ELISA, IF, WB
Reactivity:	Broad
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	A peptide corresponding to amino acids 1-19 including phosphorylated serine 10 of human histone H3
Specificity:	HISTONE H3 (pSer10)
Formulation:	Phosphate buffered saline containing 0.035% Sodium Azide (NaN3)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

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Background: Rat anti Human histone H3 (pSer10) antibody, clone 6G8B7 recognizes histone H3 when phosphorylated at serine 10.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 (Koch et al. 2007). Phosphorylation of histone H3 has been shown to occur during the early stages of mitosis when chromosomes begin to condense, and during premature condensing of chromosomes during S-phase of the cell cycle. Phosphorylation of histone H3 at serine 10 has been linked to both transcription and cell division (Hans and Dimitrov, 2001).Broad species cross-reactivity is expected from Rat anti Human histone H3 (pSer10) 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