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Product datasheet for TA420191

HIST1H3F Rat Monoclonal Antibody [Clone ID: 5D10D4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	5D10D4
Applications:	IF, WB
Reactivity:	Broad
Host:	Rat
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	A peptide containing phosphorylated serine 28 of human histone H3.1
Specificity:	HISTONE H3.1 (pSer28)
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 H3.1 (pSer28) antibody, clone 5D10D4 recognizes Histone H3.1 when phosphorylated at serine 28.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). In contrast to histone H3.3, incorporation of histone H3.1 and histone H3.2 into nucleosomes is replication dependent rather than occurring throughout the cell cycle (Tagami et al. 2004). Phosphorylation of histone H3.1 at serine 28 occurs in early mitosis and during premature chromosome condensation in cells that are in S-phase of the cell cycle (Zhong et al. 2003).Rat anti Human histone H3.1 (pSer28) antibody, clone 5D10D4 does not react with histone H3.3 phosphorylated on serine 28. Wide species cross-reactivity is expected 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