Rabbit Anti-Human HisT1H3D Polyclonal Antibody, Phospho-Ser10

CPB-732RH Rabbit(HIST1H3D)
Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview	Rabbit Polyclonal Antibody to Human HisT1H3D molecule, Phospho-Ser10
Antigen Description	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene is intronless and encodes a member of the histone H3 family. Transcripts from this gene lack polyA tails but instead contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6.
Specificity	The antibody detects endogenous level of HIST1H3D only when phosphorylated at serine 10.
Target	HisT1H3D
Immunogen	Peptide sequence around phosphorylation site of serine 10 (R-K-S(p)-T-G) derived from Human HIST1H3D.
Host	Rabbit
Species	Human
CrossReactivity	Mouse, Rat
Purification	Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Applications	WB,IHC,IF
Dilution	Western blotting 1:500-1:1000; Immunohistochemistry 1:50-1:100; Immunofluorescence 1:100-1:200

PACKAGING

Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C/1 year

ANTIGEN GENE INFORMATION

Gene Name	HIST1H3D histone cluster 1, H3d [Homo sapiens]
Official Symbol	HIST1H3D
Synonyms	HIST1H3D; OTTHUMP00000016149; Histone H3/l; Histone H3/k; Histone H3/j; Histone H3/i; Histone H3/h; Histone H3/f; Histone H3/d; Histone H3/c; Histone H3/b; Histone H3/a; Histone H3.1; histone cluster 1, H3d; histone 1, H3d; HIST1H3J; HIST1H3I; HIST1H3H; HIST1H3G; HIST1H3F; HIST1H3E; HIST1H3D; HIST1H3C; HIST1H3B; HIST1H3A; H3FL; H3FK; H3FJ; H3FI; H3FH; H3FF; H3FD; H3FC; H3FB; H3FA;H3/b; H3 histone family, member B
GeneID	8351
mRNA Refseq	NM_003530
Protein Refseq	NP_003521

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MIM	602811
UniProt ID	P68431
Chromosome Location	6p22.1
Pathway	Alcoholism; Amyloids; Disease; Factors involved in megakaryocyte development and platelet production; Gene Expression; Hemostasis; Meiosis;

REFERENCES

1.TRIM24 links a non-canonical histone signature to breast cancer.
Tsai WW, et al. Nature, 2010 Dec 16.
2.Human histone gene organization: nonregular arrangement within a large cluster.
Albig W, et al. Genomics, 1997 Mar 1.
3.The human histone gene cluster at the D6S105 locus.
Albig W, et al. Hum Genet, 1997 Dec.

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