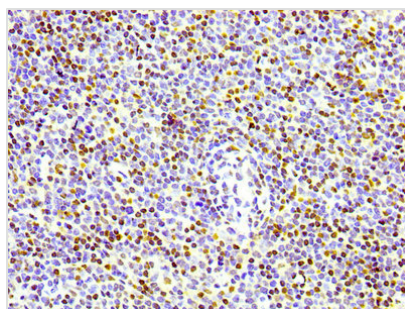




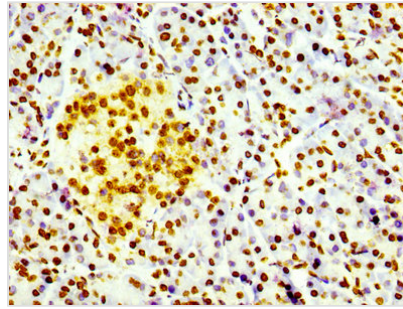
Phospho-Histone H1.4 (T17) Recombinant Monoclonal Antibody

Product Code	CSB-RA010380A17phHU
Abbreviation	Histone H1.4
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P10412
Immunogen	A synthesized peptide
Species Reactivity	Human
Tested Applications	ELISA, IHC, IF; Recommended dilution: IHC:1:50-1:500, IF:1:30-1:200
Relevance	Histone H1 protein binds to linker DNA between nucleosomes forming the macromolecular structure known as the chromatin fiber. Histones H1 are necessary for the condensation of nucleosome chains into higher-order structured fibers. Acts also as a regulator of individual gene transcription through chromatin remodeling, nucleosome spacing and DNA methylation (By similarity).
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Alias	Histone H1.4, Histone H1b, Histone H1s-4, HIST1H1E, H1F4
Immunogen Species	Homo sapiens (Human)
Research Area	Epigenetics and Nuclear Signaling
Gene Names	HIST1H1E
Clone No.	3E1

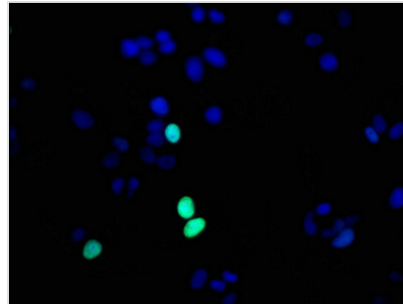
Image



IHC image of CSB-RA010380A17phHU diluted at 1:100 and staining in paraffin-embedded human lymph node tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4° overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



IHC image of CSB-RA010380A17phHU diluted at 1:100 and staining in paraffin-embedded human pancreatic tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4^o overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunofluorescence staining of MCF-7 cells with CSB-RA010380A17phHU at 1:56, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4^o. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).

Description

Anti-phospho-Histone H1.4 (T17) antibody is a recombinant monoclonal antibody that recognizes the human Histone H1.4 phosphorylated at Thr17 residue. This phospho-Histone H1.4 (T17) antibody was drawn and isolated from the tissue culture supernatant (TCS) that cultivates the cell lines containing vectors of the human phospho-Histone H1.4 (T17) monoclonal antibody gene. It underwent affinity-chromatography purification. It is a rabbit IgG. And it can be used for ELISA, IHC, and IF testing with human samples.

The higher-order chromatin structure is maintained and established partially by the linker histone H1. H1.4, one of the 11 human H1 isoforms, is one of the most widely expressed somatic H1 variations, with significant levels of expression in many cells. Phosphorylation of H1 has been recognized as its most prominent modification. The antibodies against phospho-Histone H1.4 (T17) are helpful in the detection and localization of histone H1.4 phosphorylated at Thr17.