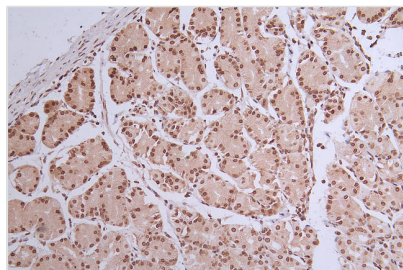




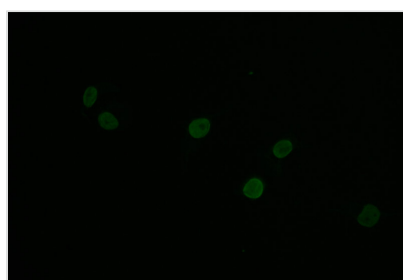
HIST1H1C Recombinant Monoclonal Antibody

Product Code	CSB-RA072684A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P16403
Immunogen	A synthesized peptide derived from Human HIST1H1C
Species Reactivity	Human
Tested Applications	ELISA, IHC, IF, FC; Recommended dilution: IHC:1:50-1:200, IF:1:50-1:200, FC:1:50-1:200
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
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Epigenetics and Nuclear Signaling
Gene Names	HIST1H1C
Clone No.	16H4

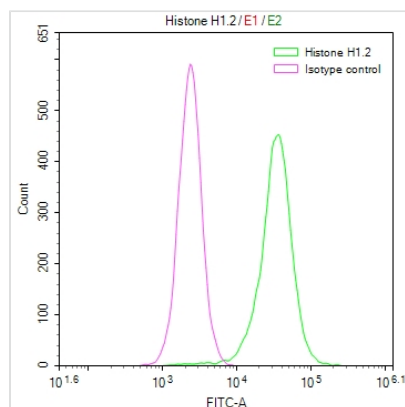
Image



IHC image of CSB-RA072684A0HU diluted at 1:50 and staining in paraffin-embedded human stomach 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°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.32% DAB.



Immunofluorescence staining of Hela with CSB-RA072684A0HU at 1:30, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 504-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Overlay Peak curve showing Hela cells stained with CSB-RA072684A0HU (red line) at 1:50. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1 μ g/1 \times 10⁶ cells) for 45min at 4 $^{\circ}$. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG(H+L) at 1:200 dilution for 35min at 4 $^{\circ}$. Control antibody (green line) was rabbit IgG (1 μ g/1 \times 10⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.

Description

The HIST1H1C recombinant monoclonal antibody is a product of a carefully planned production process. It commences with in vitro cloning, where the HIST1H1C antibody genes are seamlessly integrated into expression vectors. Subsequently, these vectors are introduced into host cells, paving the way for the recombinant antibody's expression within a cell culture setting. Post-expression, the HIST1H1C recombinant monoclonal antibody undergoes purification from the supernatant of transfected host cell lines through affinity chromatography. This antibody shows a specific binding affinity for the human HIST1H1C protein in ELISA, IHC, IF, and FC applications.

HIST1H1C, also called Histone H1.2, like other histone proteins, plays a significant role in the packaging and organization of DNA within the cell nucleus. Specifically, its main function is related to chromatin compaction and gene regulation.