Rabbit anti-Human 2-hydroxyisobutyryl-HIST1H1C Polyclonal Antibody | anti-HIST1H1C antibody

2-hydroxyisobutyryl-HIST1H1C (K109) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA235309	**Rabbit**	**Human**	**Chromatin Immunoprecipitation, Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Western Blot, ELISA**

PRODUCT SYNONYMS

2-hydroxyisobutyryl-HIST1H1C; Polyclonal Antibody; 2-hydroxyisobutyryl-HIST1H1C (K109) Antibody; Histone H1.2; Histone H1c; Histone H1d; Histone H1s-1; HIST1H1C; H1F2; anti-HIST1H1C antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Antigen Affinity Purified
Form/Format	Liquid
Sequence Length	213
Applicable Applications for anti-HIST1H1C antibody	ChIP (Chromatin immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Immunogen Species	Human
Immunogen	Peptide sequence around site of 2-hydroxyisobutyryl-Lys (109) derived from human Histone H1.2
Conjugate	Non-Conjugated
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, pH 7.4
Preparation and Storage	Upon receipt, store at-20 degree C or-80 degree C. Avoid repeated freeze.

IMAGES

ChIP (Chromatin Immunoprecipitation)
Chromatin Immunoprecipitation Hela (4*106, treated with 30mM sodium butyrate for 4h) were treated with Micrococcal Nuclease, sonicated, and immunoprecipitated with 5mug anti-HIST1H1C (CSB-PA010378OA109hibHU) or a control normal rabbit IgG. The resulting ChIP DNA was quantified using real-time PCR with primers against the beta-Globin promoter.

IF (Immunofluorescence)
Immunofluorescence staining of Hela cells (treated with 30mM sodium butyrate for 4h) with CSB-PA010378OA109hibHU at 1:25, 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 degree C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).

ICC (Immunocytochemistry)
Immunocytochemistry analysis of CSB-PA010378OA109hibHU diluted at 1:50 and staining in Hela cells (treated with 30mM sodium butyrate for 4h) performed on a Leica BondTM system. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4 degree C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

WB (Western Blot)
Western BlotDetected samples: Hela whole cell lysate, 293 whole cell lysate, A549 whole cell lysate, HepG2 whole cell lysate; Untreated (-) or treated (+) with 30mM sodium butyrate for 4hAll lanes: HIST1H1C antibody at 3.5ug/mlSecondaryGoat polyclonal to rabbit IgG at 1/50000 dilutionPredicted band size: 22 kDaObserved band size: 22 kDa

ADDITIONAL INFORMATION

Product Categories/Family for anti-HIST1H1C antibody	Epigenetics and Nuclear Signaling

NCBI AND UNIPROT INFORMATION

NCBI GI #	4885375
NCBI GeneID	3006
NCBI Accession #	NP_005310.1
NCBI GenBank Nucleotide #	NM_005319.3
UniProt Accession #	P16403; A8K4I2
Molecular Weight	21,365 Da
NCBI Official Full Name	histone H1.2
NCBI Official Synonym Full Names	histone cluster 1 H1 family member c
NCBI Official Symbol	HIST1H1C
NCBI Official Synonym Symbols	H1C; H1.2; H1F2; H1s-1
NCBI Protein Information	histone H1.2
UniProt Protein Name	Histone H1.2
UniProt Gene Name	**HIST1H1C**
UniProt Synonym Gene Names	H1F2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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