
Product Name: Crotonyl-Histone H2B (Lys12) Rabbit Monoclonal Antibody**Catalog #: AMRe03903**

For research use only.

Summary

Description	Recombinant rabbit monoclonal antibody
Host	Rabbit
Application	WB,IHC,ICC/IF
Reactivity	Human, Mouse, Rat
Conjugation	Unconjugated
Modification	Crotonylated
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Concentration	0.5mg/ml. The concentration of this product may be batch-dependent.
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% protective protein.
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:500-1:1000,IHC 1:50-1:100,ICC/IF 1:50-1:200
Molecular Weight	Calculated MW:14 kDa;Observed MW: 14 kDa

Antigen Information

Gene Name	H2BC4
Alternative Names	H2BK11cr, Histone H2B.1 A ; Histone H2B.a (H2B/a) ; Histone H2B.g (H2B/g) ; Histone H2B.h (H2B/h); Histone H2B.k (H2B/k); Histone H2B.l (H2B/l)
Gene ID	3018
SwissProt ID	P33778
Immunogen	A synthetic Crotonylated peptide corresponding to residues target protein

Background

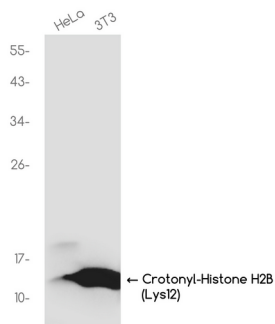
Histones are subject to a variety of enzyme catalyzed modifications, including acetylation, methylation, phosphorylation,

ubiquitylation, etc. Crotonylation of lysine is a newly identified reversible modification controlling chromosome structure and gene transcription. The reversible lysine crotonylation has been well demonstrated in eukaryotic histones from worm to human. The unique structure and genomic localization of histone lysine crotonylation suggest that it is mechanistically and functionally different from histone lysine acetylation. Specifically, in both human somatic and mouse male germ cell genomes, histone crotonylation marks either active promoters or potential enhancers. Crotonylation of histone H2B at Lys11 may play a vital role in the epigenetic modulation, including chromatin remodeling and DNA transcriptional regulation.

Research Area

Epigenetics and Nuclear Signaling

Image Data



Western blot analysis of Crotonyl-Histone H2B (Lys12) in HeLa, 3T3 lysates using Crotonyl-Histone H2B (Lys12) antibody.