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

Summary

Production Name	Crotonyl-Histone H2B (Lys12) Rabbit Monoclonal Antibody
Description	Recombinant Rabbit Monoclonal antibody
Host	Rabbit
Application	WB,IHC-F,IHC-P,ICC/IF
Reactivity	Human, Mouse, Rat

Performance

Conjugation	Unconjugated
Modification	Crotonylated
Isotype	IgG
Clonality	Monoclonal Antibody
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Purification	Affinity Purified

Immunogen

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

Application

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

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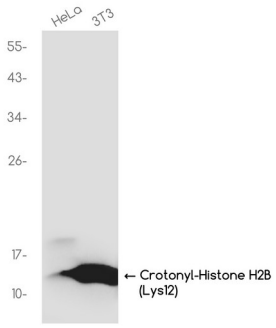
Background

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.

Note

For research use only.