

Product name:	Crotonyl-Histone H2B (Lys12) Rabbit Monoclonal Antibody
Cat number:	MABN03903
Conjugate:	Unconjugated
Size:	100µL
Clone:	Monoclonal
Concentration:	1mg/ml
Host:	Rabbit
Isotype:	IgG
Immunogen:	A synthetic Crotonylated peptide corresponding to residues target protein
Reactivity:	Human, Mouse, Rat
Applications:	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
Purification:	Affinity Purification
Form:	Liquid
Buffer:	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage:	Store at 4°C short term. Aliquot and store at -20°C for 12 months. Avoid freeze/thaw cycles.
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.