

Citrullinated Histone H1.4 (R53) Antibody

CATALOG NO.: A2317-50 (50 µl)
A2317-100 (100 µl)

BACKGROUND DESCRIPTION: Histone H1.4 is a nuclear protein that binds to linker DNA between nucleosomes to form chromatin fibers. Histone H1.4 is expressed in most somatic cell types, and is necessary for the ordering of nucleosomes into higher-order structures and the compaction of chromatin into its condensed form. The arginine at position 53 can be citrullinated by protein-arginine deiminase 4 (PAD4), which releases Histone H1.4 from the histone complex, leading to chromatin decondensation. Aberrations in Histone H1.4 has been linked to intellectual disability disorders such as Rahman Syndrome.

ALTERNATE NAMES: Histone Cluster 1, H1e; Histone H1s-4; Histone H1b; HIST1H1E; H1s-4; H1.4; H1F4; H1-4

ANTIBODY TYPE: Polyclonal

HOST/ISOTYPE: Rabbit / IgG

IMMUNOGEN: Synthetic peptide of human histone H1.4 citrullinated at R53

PURIFICATION: Peptide affinity purification

MOLECULAR WEIGHT: 35 kDa (observed)

FORM: Liquid

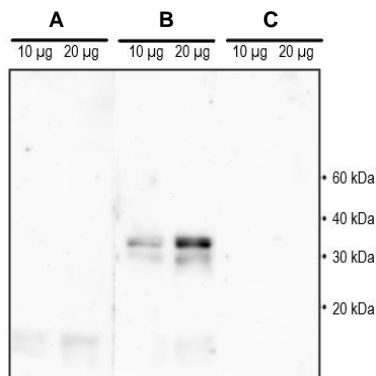
FORMULATION: TBS, pH 7.4, with 50% glycerol, 0.1% BSA, 0.02% sodium azide

SPECIES REACTIVITY: Human

STORAGE CONDITIONS: Aliquot and store at -20 °C. Avoid repeated freeze-thaw cycles

APPLICATIONS: Western Blot: 1:200 dilution

This information is only intended as a guide. The optimal dilutions must be determined by the user



Western blot analysis of Citrullinated Histone H1.4 (R53) Antibody with **A)** Citrullinated core histones in the presence of blocking peptide; **B)** Citrullinated core histones; **C)** Uncitrullinated core histones

RELATED PRODUCTS:

Anti-Histone H4 Rabbit Monoclonal Antibody (Cat. No. A1139)
 PAD4 Polyclonal Antibody (Cat. No. A2314P)
 Anti-HIST1H1E K51ac Antibody (Cat. No. A2051)
 PAD4 Monoclonal Antibody (Clone 11F9) (Cat. No. A2314M)
 Histone H4 Antibody (Cat. No. 3624)

FOR RESEARCH USE ONLY! Not to be used on humans.