

# Histone H3 (Citrullinated R2, R8, R17) Antibody

03/21

CATALOG NO.:                    **A2318-50 (50 µl)**  
    **A2318-100 (100 µl)**

**BACKGROUND DESCRIPTION:** Histone H3 is a nuclear protein that is a component of the histone complex that is essential for the organization of genetic material in eukaryotes. Histone H3 can be citrullinated by protein arginine deiminase 4 (PAD4) at positions 2, 8, and 17, which blocks methylation and induces transcriptional repression at target genes. The citrullinated histone H3 is found in neutrophil extracellular traps (NETs), which act to induce production of autoantibodies associated with various diseases such as multiple sclerosis and rheumatoid arthritis.

**ALTERNATE NAMES:**            Histone H3; H3 Clustered Histone 1; H3/A; Histone H3.1; Histone H3/A

**ANTIBODY TYPE:**                Polyclonal

**HOST/ISOTYPE:**                Rabbit / IgG

**IMMUNOGEN:**                    Histone H3 peptide citrullinated at R2, R8, and R17

**PURIFICATION:**                Peptide affinity purification

**MOLECULAR WEIGHT:**         ~16 kDa

**FORM:**                             Liquid

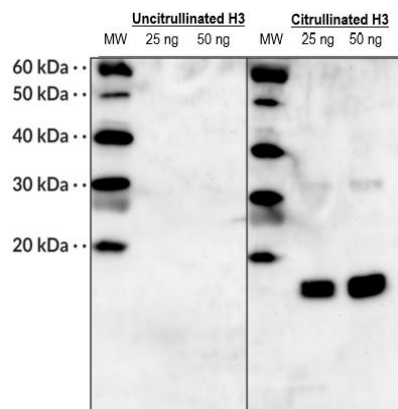
**FORMULATION:**                TBS, pH 7.4, with 50% glycerol, 0.1% BSA, 0.02% sodium azide

**SPECIES REACTIVITY:**        Human

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

**APPLICATIONS:**                Western Blot & ELISA: 1:200 dilution

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



Western blot analysis of uncitrullinated and citrullinated human histone H3 protein samples using Histone H3 (Citrullinated R2, R8, R17) Antibody

## RELATED PRODUCTS:

PAD4 Polyclonal Antibody (Cat. No. A2314P)  
 Histone H3 Antibody (Cat. No. 3623)  
 Anti-Histone H4 Rabbit Monoclonal Antibody (Cat. No. A1139)  
 Anti-HIST1H1E K51ac Antibody (Cat. No. A2051)  
 Histone H3 (Phospho-Ser28) (Clone 117C826) Antibody (Cat. No. 6119)

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