

AbX™

Histone H3 Rabbit pAb

Catalog Number A004-100UL



ARBOR
ASSAYS

FEATURES

- Reacts with modified Histone H3
- Supplied as a PBS solution
- Applications include Western blotting and ChIP

INTRODUCTION

Chromosomal surfaces are ornamented with a variety of posttranslational modifications of histones, which are required for the regulation of many of the DNA-templated processes. Histone H3 is one of the five main histone proteins involved in the structure of chromatin in eukaryotic cells. Featuring a main globular domain and a long N-terminus tail, H3 is involved with the 'beads on a string' structure of the nucleosome. Histone H3 is the most extensively post-translationally modified of the five histones. The term "Histone H3" alone is purposely ambiguous in that it does not distinguish between sequence variants or modification state. Histone H3 is an important protein in the emerging field of epigenetics, where its sequence variants and variable modification states are thought to play a role in the regulation of genes. For example, histone methylation either on their arginine and/or lysine residues, yields a more diverse array of cellular functions.

FORM

Purified AbX™ C-Terminal Histone H3 Rabbit Antibody.

IMMUNOGEN

C-Terminal peptide of Histone H3 which should be non-modified.

CROSS REACTIVITY

Peptide immunogen sequence is highly conserved. Expected to react with Histone H3 from yeast to mammals.

BUFFER COMPOSITION

Phosphate Buffered Saline at pH 7.2 containing 0.09% Sodium Azide

STORAGE

Short Term: 4°C. Extended: Aliquot and freeze at -20°C

USES

Western blotting and Immunoprecipitation

SUGGESTED DILUTION

Western blotting: Suggested dilution, 1:500-1:1,500
ChIP: 50 µL

FOR RESEARCH USE ONLY

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WESTERN BLOTTING

5 μ L of acid treated HeLa extracts or recombinant Histone H3 were treated with a 1:500 dilution of antibody A004-100UL prior to visualization.

**Related Products**

DetectX™ Universal Histone Demethylase Fluorescent Activity Kit
Catalog Number K006-F1

DetectX™ Universal Methyltransferase Fluorescent Activity Kit
Catalog Number K014-F1

AbX™ Antibodies to Unmodified, Monomethylated, Dimethylated and
Trimethylated Lysine⁴ Histone H3
Catalog Numbers A003, A005, A006, and A007