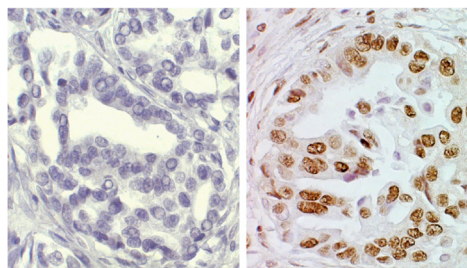




Mouse Anti-Acetyl-Histone H3 (Lys4)

Cat. No.	Format	Size
13600-01	Purified (UNLB)	0.1 mg



Paraffin embedded human gastric cancer tissue was stained with Mouse Anti-Acetyl-Histone H3 (Lys4)-UNLB (SB Cat. No. 13600-01) followed by Goat Anti-Mouse IgG(H+L), Human ads-BIOT (SB Cat. No. 1031-08), Streptavidin-HRP (SB Cat. No. 7100-05), DAB, and hematoxylin.

Overview

Clone	SB147d
Isotype	Mouse (BALB/c) IgG _{2b} K
Immunogen	Synthetic peptide designed based on the region around Lysine 4 of human H3 sequence
Specificity	Human H3 acetylated at Lysine 4, Mr 17 kDa
Alternate Name(s)	H3K4ac

Description

Nucleosomes are the fundamental repeating subunit of chromatin and are the basic units of DNA packaging in eukaryotes. Nucleosomes consist of 147 base pairs of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). Histones consist of a globular domain and a more flexible amino terminus (histone "tail") which may undergo various post-translational modifications, including acetylation, phosphorylation, and methylation. These modifications have a direct effect on chromatin structure and chromatin protein interactions, and are involved in DNA repair, chromosome condensation, and gene regulation.

Applications

ELISA – Quality tested
 WB¹
 IP²
 IHC-PS¹
 ICC¹
 FC¹

Working Dilutions

ELISA	Purified (UNLB) antibody	≤ 1 µg/mL
Immunoblotting	Purified (UNLB) antibody	≤ 2 µg/mL
Immunocytochemistry	Purified (UNLB) antibody	≤ 5 µg/mL
Immunohistochemistry	Purified (UNLB) antibody	≤ 5 µg/mL
Flow Cytometry	Purified (UNLB) antibody	≤ 1 µg/10 ⁶ cells
	For flow cytometry, the suggested use of these reagents is in a final volume of 100 µL	

Other Applications Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.

For Research Use Only. Not for Diagnostic or Therapeutic Use.

Handling and Storage

- The purified (UNLB) antibody is supplied as 0.1 mg of purified immunoglobulin in 0.2 mL of borate buffered saline, pH 8.2, containing 30% glycerol and 0.01% BSA. Store at -20°C.
- Reagent is stable for the period shown on the label if stored as directed.

References

1. SouthernBiotech published data
2. SouthernBiotech unpublished data