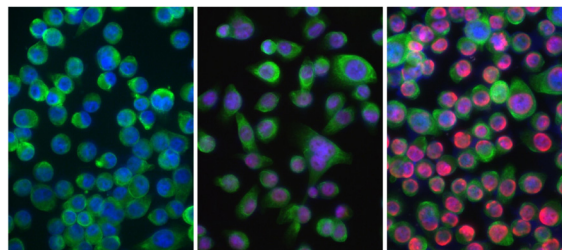




Mouse Anti-Acetyl-Histone H4 (Lys12)

Cat. No.	Format	Size
13400-01	Purified (UNLB)	0.1 mg



With H4K12ac Peptide Block

With H4K12ac Peptide Block

Without H4K12ac Peptide Block

Human pancreatic carcinoma cell line MIA PaCa-2 was intracellularly stained with Mouse IgG₁-BIOT (SB Cat. No. 0102-08; left), Mouse Anti-Cytokeratin 18-FITC (SB Cat. No. 10085-02), and Mouse Anti-Acetyl-Histone H4 (Lys12) (SB Cat No. 13400) conjugated to biotin followed by Streptavidin-CY3 (SB Cat. No. 7100-12) and DAPI.

Overview

Clone	SB159b
Isotype	Mouse (BALB/c) IgG ₁ κ
Immunogen	Synthetic peptide designed based on the region around Lysine 12 of human H4 sequence
Specificity	Human H4 acetylated at Lysine 12, Mr 11 kDa
Alternate Name(s)	H4K12ac

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

FC²

Working Dilutions

ELISA	Purified (UNLB) antibody	≤ 1 µg/mL
Immunoblotting	Purified (UNLB) antibody	≤ 1 µg/mL
Immunocytochemistry	Purified (UNLB) antibody	≤ 1 µg/mL
Immunohistochemistry	Purified (UNLB) antibody	≤ 3 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