

Pan Lactic acid-Lysine Rabbit mAb

Catalog NO.: A23004 **Recombinant** **7 Publications**

Basic Information

Observed MW

10-250kDa

Calculated MW

Category

Monoclonal Antibodies

Applications

WB, IP, ELISA

Cross-Reactivity

Human, Mouse, Rat, Other (Wide Range Predicted)

Clone number

ARC59407

Background

Histone lysine lactation (Kla) is a newly discovered histone modification that regulates gene expression in macrophages. In M1 macrophages, lactic acid is derived from incompletely oxidized glucose and then produces lactyl-CoA, which is transferred via acetyltransferase p300 to the lysine tail of the histone. This modification is abundant in gene promoter regions that lack acetylation and are associated with gene expression activation.

Recommended Dilutions

WB 1:500 - 1:1000

IP

0.5µg-4µg antibody for 400µg-600µg extracts of whole cells

ELISA

Recommended starting concentration is 1 µg/mL.
Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID **Swiss Prot**

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

Contact

Product Information

☒		order@abclonal.com
☒		service@abclonal.com
☒		www.abclonal.com

Source

Rabbit

Isotype

IgG

Purification

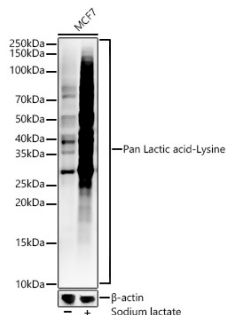
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

Validation Data



Western blot analysis of lysates from MCF7 cells, using Pan Lactic acid-Lysine Rabbit mAb (A23004) at 1:1000 dilution. MCF7 cells were treated with Sodium lactate(100mM) for 24h.

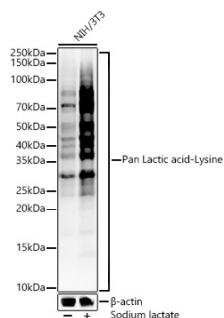
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Enhanced Kit (RM00021).

Exposure time: 180s.



Western blot analysis of lysates from NIH/3T3 cells, using Pan Lactic acid-Lysine Rabbit mAb (A23004) at 1:1000 dilution. NIH/3T3 cells were treated with Sodium lactate(100mM) for 24h.

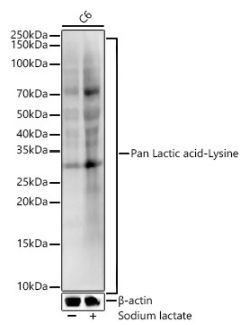
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Enhanced Kit (RM00021).

Exposure time: 180s.



Western blot analysis of lysates from C6 cells, using Pan Lactic acid-Lysine Rabbit mAb (A23004) at 1:1000 dilution.

C6 cells were treated with Sodium lactate(100mM) for 24h.

Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

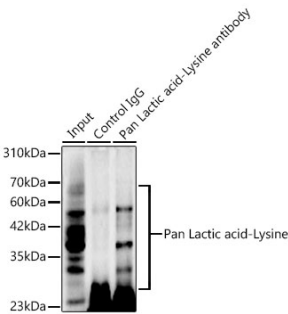
Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Enhanced Kit (RM00021).

Exposure time: 180s.

Validation Data



Immunoprecipitation of Pan Lactic acid-Lysine in 500 µg extracts from MCF7 cells treated by Sodium lactate(200mM, 24h) using 2 µg Pan Lactic acid-Lysine Rabbit mAb (A23004). Western blot analysis was performed using Pan Lactic acid-Lysine Rabbit mAb (A23004) at 1:500 dilution.

