

# Pan Lactic acid-Lysine Rabbit mAb

Catalog No.: A23004 **Recombinant** **4 Publications**

## Basic Information

### Observed MW

10-250kDa

### Calculated MW

### Category

Primary antibody

### Applications

WB,IP,ELISA

### Cross-Reactivity

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

### CloneNo 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

 | 400-999-6126

 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

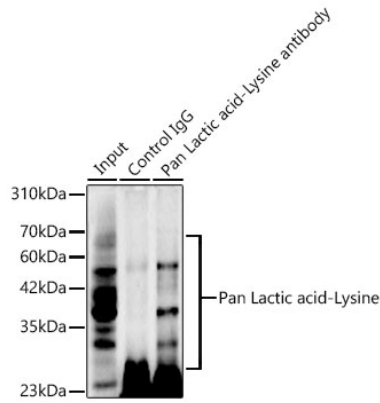
Affinity purification

### Storage

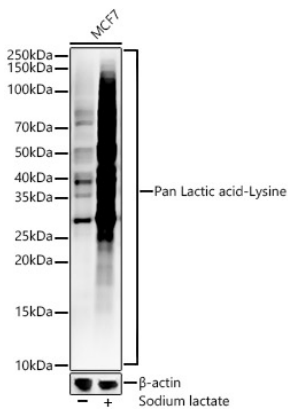
Store at -20°C. Avoid freeze / thaw cycles.

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

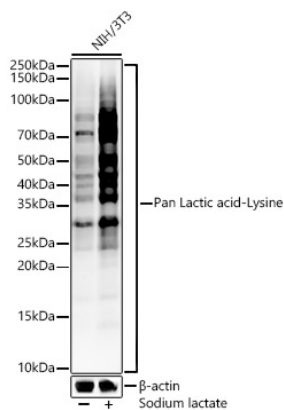
## Validation Data



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.



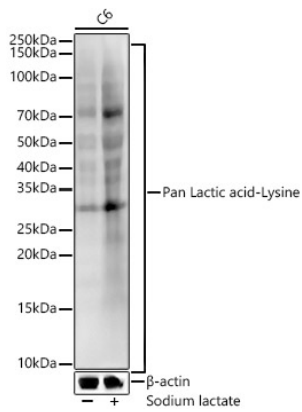
Western blot analysis of lysates from MCF7 cells, using Pan Lactic acid-Lysine Rabbit mAb (A23004) at 1:1000 dilution. MCF7 cells were treated with Sodium lactate(100mM) for 24h. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. 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.

## Validation Data

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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.