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Pan Lactic acid-Lysine Rabbit mAb

Catalog No.: A23004 Recombinant

Basic Information

Observed MW
15kDa-250kDa/10kDa

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
A synthetic peptide corresponding to a sequence containing Pan Lactic acid-Lysine.

Synonyms

Contact

400-999-6126

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Product Information

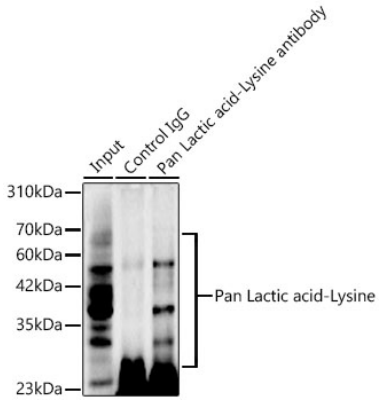
Source
Rabbit

Isotype
IgG

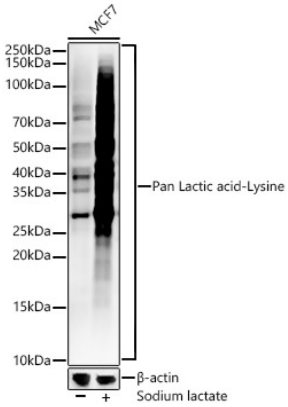
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

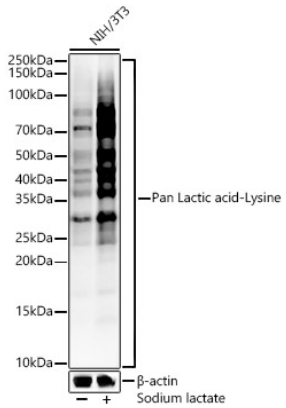
Validation Data



Immunoprecipitation of Pan Lactic acid-Lysine in 500 µg extracts from MCF7 cells trated 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.

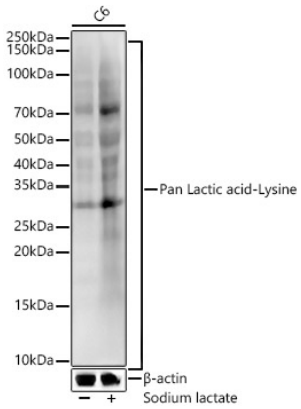


Western blot analysis of lysates from MCF7 cells, using Pan Lactic acid-Lysine Rabbit mAb (A23004) at 1:1000 dilution. MCF7 cells were treated by Sodium lactate(100mM) for 24h.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.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



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