

U-Blot[®] Pan-L-Lactyllysine Rabbit pAb (WT9001)

User Manual

General Information

Product name	U-Blot [®] Pan-L-Lactyllysine Rabbit pAb
Product No.	WT9001
Clonality	Polyclonal
Alternative name	Kla、KL-la

Key Features

Target	L-Lactyllysine
Reactivity	Species Independent
Applications	WB、IHC-P、ICC/IF、FC
MW(Calculated)	Multiple
MW(Observed)	Multiple
Host Species	Rabbit
Isotype	IgG
Modification	Lysine Lactylation
Modification Site	Lys (K)
Purification	Protein A
Immunogen	polypeptide

Storage Information

Storage	Store at -20°C. Avoid repeated freeze-thaw cycles
Stability	Stable for 12 months from date of receipt / reconstitution
Formulation	0.01% NaN ₃ , PBS, 60% Glycerol, BSA

Product Usage Information

Applications	Dilution	Recommended Species
WB	1:1000-1:2000	All
IHC-P	1:100-1:200	Human, Mouse
ICC/IF	1:100-1:200	Human
FC	1:100-1:200	Human

Target Information

L-Lactyllysine (abbreviated as Kla) is a novel lysine acylation-type post-translational modification. It is formed by the covalent attachment of an L-lactyl group to lysine residues, mainly mediated by lactoyl-CoA. Kla is widely distributed on both histone and non-histone proteins, and participates in chromatin remodeling, gene transcription regulation, cellular metabolism, and inflammatory responses. Studies have shown that L-lactylation is closely associated with tumor metabolic reprogramming, hypoxia stress, immune regulation, and various disease processes, serving as a key mechanism linking cellular metabolism and epigenetic regulation.

Background

Cellular Localization

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Images

Dot Blot



Note: The KL-la and KD-la peptides were diluted in a gradient of 5 ng, 15 ng, 50 ng, 150 ng, and 500 ng. All other peptides were diluted in a gradient of 5 ng, 15 ng, 50 ng, and 150 ng.

Blocking buffer: 5% NFDm/TBST

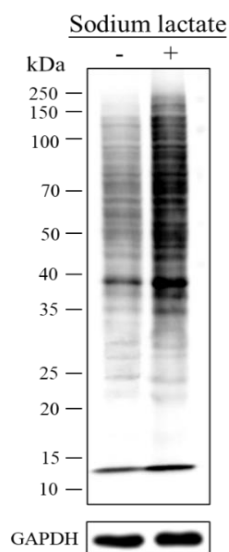
Primary antibody dilution: 1:2000

Primary antibody incubation condition: Overnight at 4°C

Secondary antibody: Goat Anti-Rabbit IgG H&L (HRP)

Exposure time: 40 seconds

WB



Samples: (-): A549, (+): 293T, (+): 293T+ sodium lactate (100 mM, 24 hr)

Protein loading amount: 15 µg

Gel concentration: 11%

Blocking buffer: 5% NFDm/TBST

Primary antibody dilution: 1:2000

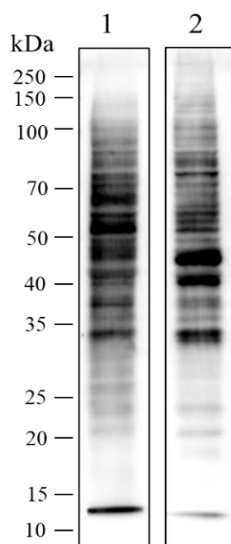
Primary antibody incubation: Overnight at 4°C

Secondary antibody: Goat Anti-Rabbit IgG H&L (HRP)

Exposure time: 22 seconds

Predicted band size: Multiple

Observed band size: Multiple



Sample: 1: SW1116; **2:** NCM460

Protein loading amount: 15 µg

Gel concentration: 11%

Blocking buffer: 5% NFDm/TBST

Primary antibody dilution: 1:1500

Primary antibody incubation: Overnight at 4°C

Secondary antibody: Goat Anti-Rabbit IgG H&L (HRP)

Exposure time: 90 seconds

Predicted band size: Multiple

Observed band size: Multiple

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