

U-Blot® Pan-D-Lactyllysine Rabbit pAb (WT9003)

User Manual

General Information

Product name	U-Blot® Pan-D-LactylLysine Rabbit pAb
Product No.	WT9003
Clonality	Polyclonal
Alternative name	K _D -la

Key Features

Target	D-Lactyllysine
Reactivity	Species Independent
Applications	WB, IHC-P, ICC/IF, FC
MW(Calculated)	Multiple
MW(Observed)	Multiple
Host Species	Rabbit
Isotype	IgG
Conjugate	Unconjugated
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	All
IHC-P	1:100-1:200	Human, Mouse
ICC/IF	1:100-1:200	Human
FC	1:100-1:200	Human

Target Information

D- Lactyllysine (K(D- la)) is the D-stereoisomer of lysine lactylation, a novel type of lysine acylation post- translational modification. By conjugating a D- lactyl group to lysine residues, K(D- la) is mainly generated via non- enzymatic pathways from glycolysis byproducts and exists on both histone and non- histone proteins. It participates in chromatin remodeling, gene transcription, and cellular metabolic stress responses, and is closely associated with tumorigenesis, inflammation, metabolic reprogramming, and other pathological processes, serving as a key target in metabolic- epigenetic crosstalk research.

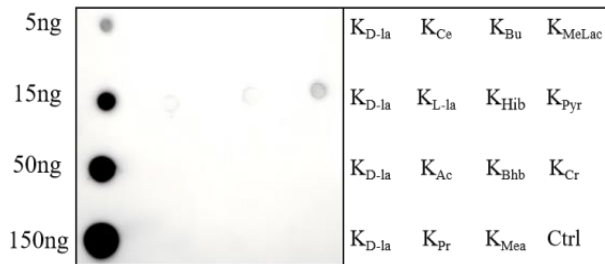
Background

Cellular Localization

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Images

Dot Blot



Blocking buffer: 5% NFDM/TBST

Primary antibody dilution: 1:2000

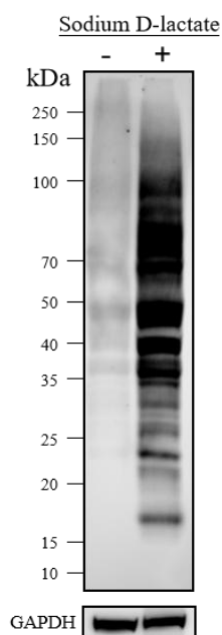
Primary antibody incubation condition: 2 hour at room temperature

Note: K_{D-la} peptides were diluted to 5 ng, 15 ng, 50 ng, and 150 ng. All other peptides were diluted to 150 ng.

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

Exposure time: 31 seconds

WB



Samples: (-): HeLa, (+): HeLa +Sodium D-lactate(50 mM, 24 hr)

Protein loading amount: 30 µg

Gel concentration: 8-16%

Blocking buffer: 5% NFDM/TBST

Primary antibody dilution: 1:1000

Primary antibody incubation: 2 hour at room temperature

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

Exposure time: 95 seconds

Predicted band size: Multiple

Observed band size: Multiple

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