

U-Blot[®] Pan-L-Lactyllysine Rabbit mAb (WT9168R)

User Manual

General Information

Product name	U-Blot [®] Pan-L-Lactyllysine Rabbit mAb
Product No.	WT9168R
Clonality	Recombinant monoclonal
Clone Number	W-R81
Alternative name	Kla、K _L -la

Key Features

Target	L-Lactyllysine
Reactivity	Species Independent
Applications	WB, IHC-P, ICC/IF, FC, IP, ChIP
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	PBS, Glycerol, BSA

Product Usage Information

Applications	Dilution	Recommended Species
WB	1:500-1:1000	All
IHC-P	1:200-1:1000	Human, Mouse
ICC/IF	1:50-1:100	Human
FC	1:50-1:100	Human
ChIP	6 μ g per 5×10^6 cells	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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