

U-Blot[®] Pan-Leucyllysine Rabbit pAb (WT9026)

User Manual

General Information

Product name	U-Blot [®] Pan-Leucyllysine Rabbit pAb
Product No.	WT9026
Clonality	Polyclonal
Alternative name	K _{Leu}

Key Features

Target	Leucyllysine
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 leucylation
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

Leucyllysine refers to a recently identified post-translational modification (PTM) of lysine residues, in which a leucine moiety is covalently conjugated to the ϵ -amino group of lysine via an amide bond. This modification, termed lysine leucylation, represents a novel class of aminoacylation PTMs that can alter protein charge, structure, stability, and protein- protein interactions.

Background

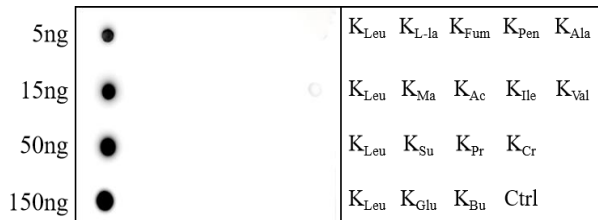
Emerging evidence indicates that leucyllysine modifications are widely distributed in histones and cellular metabolic proteins, and are closely associated with cellular stress responses, metabolic regulation, and epigenetic control. Given their critical roles in physiological and pathological processes, specific detection of endogenous leucyllysine- modified proteins is essential for profiling modification dynamics and exploring their biological functions.

Cellular Localization

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Images

Dot Blot



Note: The K_{Leu} peptide was diluted in gradients of 5 ng, 15 ng, 50 ng, and 150 ng. All other peptides were used at a dilution amount of 150 ng.

Blocking buffer: 5% NFDM/TBST

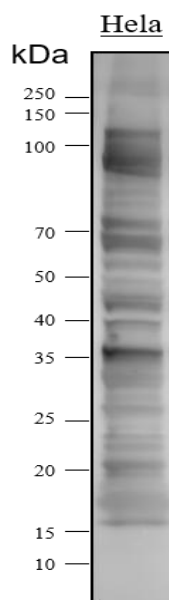
Primary antibody dilution: 1:2000

Primary antibody incubation condition: 2 hour at room temperature

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

Exposure time: 30 seconds

WB



Samples: HeLa

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: 90 seconds

Predicted band size: Multiple

Observed band size: Multiple

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