

U-Blot[®] Pan-Acetyllysine Mouse mAb (WT9180)

User Manual

General Information

Product name	U-Blot [®] Pan-Acetyllysine Mouse mAb
Product No.	WT9180
Clonality	Monoclonal
Alternative name	Kac

Key Features

Target	Acetyllysine
Reactivity	Species Independent
Applications	WB, ELISA, IP, IHC-P, IF
MW(Calculated)	Multiple
MW(Observed)	Multiple
Host Species	Mouse
Isotype	IgG ₂
Conjugate	Unconjugated
Modification	Lysine acetylation
Modification Site	Lys (K)
Purification	The antibody was purified on acetyl-lysine agarose
Immunogen	Acetylated KLH conjugates

Storage Information

Storage	Product is stable for 30 days at room temperature. For extended storage, store product at -20°C
Stability	Stable for 12 months from date of receipt / reconstitution
Formulation	250 µg/mL in PBS (pH7) with 50% glycerol

Product Usage Information

Applications

WB

IF

IP

Dilution

0.1-0.5 $\mu\text{g/mL}$

1-5 $\mu\text{g/mL}$

approximately 10 $\mu\text{g/mg}$
crude protein

Target Information

Background

Acetyllysine (abbreviated as Kac) is a classic and widespread post-translational modification of lysine acetylation. This modification covalently adds an acetyl group to the side-chain amino group of lysine residues, altering the charge and structure of proteins to regulate their functions. Lysine acetylation is an important epigenetic marker on histones, involved in chromatin remodeling and gene transcription regulation. It also widely exists in non-histone proteins such as metabolic enzymes, signaling proteins, and transcription factors, playing essential roles in cellular metabolism, signal transduction, cell cycle progression, and DNA repair. Dysregulation of lysine acetylation is closely associated with the development of cancer, metabolic diseases, neurodegenerative diseases, and other disorders.

Cellular Localization

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