

U-Blot[®] Pan-Butyryllysine Rabbit mAb (WT9043R)

User Manual

General Information

Product name	U-Blot [®] Pan-Butyryllysine Rabbit mAb
Product No.	WT9043R
Clonality	Recombinant monoclonal
Clone Number	W-R18
Alternative name	Kbu

Key Features

Target	Butyryllysine
Reactivity	Human, Mouse, Rat
Applications	WB, IHC-P, ICC/IF
MW(Calculated)	Multiple
MW(Observed)	Multiple
Host Species	Rabbit
Isotype	IgG
Conjugate	Unconjugated
Modification	Lysine Butyrylation
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	Human, Mouse, Rat
ICC/IF	1:100	Human
IHC-P	1:100-500	Human

Target Information

Lysine butyrylation is a newly discovered reversible post-translational modification, which is structurally analogous to lysine acetylation and lysine propionylation and participates in the regulation of protein biological activity. By virtue of integrated proteomic strategies and biochemical analysis, lysine butyrylation has been extensively identified in prokaryotes and eukaryotes, occurring on a large number of substrates including histones and non-histone proteins. Multiple lysine residues of histones and key non-histone proteins such as p53 and p300/CBP can undergo butyrylation modification. Lysine butyrylation exerts essential regulatory functions in epigenetic modulation, mainly by affecting chromatin dynamics and plasticity, mediating DNA transcription regulation, and participating in the occurrence and development of tumorigenesis and other pathological processes.

Background

Cellular Localization

/

For Research Use Only. Not for Use in Diagnostic Procedures.