

U-Blot[®] Pan- β -Hydroxybutyryllysine Rabbit mAb (WT9120R)

User Manual

General Information

Product name	U-Blot [®] Pan- β -Hydroxybutyryllysine Rabbit mAb
Product No.	WT9120R
Clonality	Recombinant monoclonal
Clone Number	W-R20
Alternative name	Kbhb

Key Features

Target	β -Hydroxybutyryllysine
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 β -Hydroxybutyrylation
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	1:1000-1:2000	All
ICC/IF	1:100-200	Human
IHC-P	1:200-1000	Human

Target Information

Histones are subject to a variety of enzyme-catalyzed modifications, including acetylation, methylation, phosphorylation, ubiquitination, etc. β -Hydroxybutyrylation of lysine (Kbhb) is a newly identified histone marker that is enriched in active gene promoters. Histone Kbhb marks are dramatically induced in response to elevated β -hydroxybutyrate levels in cultured cells and in livers from mice subjected to prolonged fasting or streptozotocin-induced diabetic ketoacidosis. Histone β -hydroxybutyrylation represents a new epigenetic regulatory mark that couples metabolism to gene expression, offering a new avenue to study chromatin regulation and diverse functions of β -hydroxybutyrate in the context of important human pathophysiological states, including diabetes, epilepsy, and neoplasia.

Background

Cellular Localization

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