

U-Blot[®] Phospho-HDAC1 (Ser406) Mouse mAb (WT9072)

User Manual

General Information

Product name	U-Blot [®] Phospho-HDAC1 (Ser406) Mouse mAb
Product No.	WT9072
Clonality	Recombinant monoclonal
Clone Number	W-R46
Alternative name	Phospho-HDAC1 (Ser406)

Key Features

Target	Phospho-HDAC1 (Ser406)
Reactivity	Human
Applications	WB
MW(Calculated)	55 kDa
MW(Observed)	60 kDa
Host Species	Mouse
Isotype	IgG2b/Kappa
Conjugate	Unconjugated
Modification	Phosphorylation
Modification Site	Ser406
Purification	Protein G
Immunogen	Polypeptide
Specificity	Specific for HDAC1 only when phosphorylated at Ser406

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	Human

Target Information

Gene name	HDAC1
Protein name	Histone deacetylase 1
Organism	Human
Gene ID	3067
SwissProt	Q13547

Background

Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Aurora kinases phosphorylate HDAC1 at Ser406 during prophase, immediately after cells begin mitosis, resulting in reduced deacetylase activity of HDAC1. This modification plays an essential role in regulating cell cycle progression, as well as controlling the expression of genes involved in central nervous system development.

Cellular Localization	Nucleus
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