

U-Blot[®] Phospho-Caveolin-1 (Tyr14) Rabbit mAb (WT9062)

User Manual

General Information

Product name	U-Blot [®] Phospho-Caveolin-1 (Tyr14) Rabbit mAb
Product No.	WT9062
Clonality	Recombinant monoclonal
Clone Number	W-R37
Alternative name	CAV1

Key Features

Target	Phospho-Caveolin-1 (Tyr14)
Reactivity	Human
Applications	WB
MW(Calculated)	20 kDa
MW(Observed)	22 kDa
Host Species	Rabbit
Isotype	IgG2a/Kappa
Conjugate	Unconjugated
Modification	Phosphorylation
Modification Site	Tyr14
Purification	Protein A affinity purification
Immunogen	Polypeptide
Specificity	Specific for Caveolin-1 only when phosphorylated at Tyr14

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	1:500-1000	Human

Target Information

Gene name	CAV1
Protein name	Caveolin-1
Organism	Human
Gene ID	857
SwissProt	Q03135

Caveolins are the principal structural components of the cholesterol/sphingolipid-enriched plasma membrane microdomain caveolae. Three members of the caveolin family (caveolin-1, -2, and -3) have been identified with different tissue distributions.

Caveolins form hetero- and homo-oligomers that interact with cholesterol and other lipids. Caveolins are involved in diverse biological functions, including vesicular trafficking, cholesterol homeostasis, cell adhesion, and apoptosis, and are also implicated in neurodegenerative disease. Caveolins interact with multiple signaling molecules, such as G α subunit, tyrosine kinase receptors, PKCs, Src family tyrosine kinases, and eNOS. It is believed that caveolins serve as scaffolding proteins for the integration of signal transduction. Phosphorylation at Tyr14 is essential for caveolin association with SH2 or PTB domain-containing adaptor proteins, such as GRB7. Phosphorylation at Ser80 regulates caveolin binding to the ER membrane and entry into the secretory pathway. Cellular location: Golgi apparatus, Cell membrane.

Background

Cellular Localization

Golgi apparatus, Cell membrane

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