

U-Blot® Phospho-CD31 (Tyr713) Rabbit mAb (WT9064)

User Manual

General Information

Product name	U-Blot® Phospho-CD31 (Tyr713) Rabbit mAb
Product No.	WT9064
Clonality	Recombinant monoclonal
Clone Number	W-R38
Alternative name	CD31, PECAM1

Key Features

Target	Phospho-CD31 (Tyr713)
Reactivity	Human
Applications	WB
MW(Calculated)	83 kDa
MW(Observed)	130 kDa
Host Species	Rabbit
Isotype	IgG
Conjugate	Unconjugated
Modification	Phosphorylation
Modification Site	Tyr713
Purification	Protein A affinity purification
Immunogen	Polypeptide
Specificity	Specific for CD31 only when phosphorylated at Tyr713

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	PECAM1
Protein name	Platelet endothelial cell adhesion molecule-1 (PECAM-1/CD31)
Organism	Human
Gene ID	5175
SwissProt	P16284

Background

CD31, also named as Platelet Endothelial Cell Adhesion Molecule-1 (PECAM-1), a member of the Ig superfamily of cell adhesion molecules, is expressed by circulating platelets, monocytes, neutrophils, some T cells, and endothelial cells and modulates cell adhesion, endothelial cell migration, and angiogenesis. CD31 is phosphorylated on Tyr686 at the cytoplasmic carboxy-terminal tail upon various stimuli (e.g. mechanical or oxidative stress), presumably by Src family members. The tyrosine phosphorylation mediates associations with a number of SH2 domain-containing binding partners such as PI3 kinase, SHIP, PLC γ , and SHP 2. Thus, CD31 serves as a scaffold for various signaling molecules.

Cellular Localization

Membrane

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