Recombinant Human Von Willebrand Factor

Cat. No. VWF-126H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Humanvon Willebrand factor protein expressed in*E.coli*encodes amino acids 2597-2791 and has a molecular mass of 48 kDa.
Species	Human
Source	E.coli
ProteinLength	2597-2791 a.a.
Description	Factor VIII related antigen or von Willebrand factor is a multimeric glycoprotein. It has functional binding domains to platelet glycoprotein Ib, glycoprotein IIb/IIIa, collagen and heparin. von Willebrand factor is synthesized by endothelial cells and stored in the Weibel-Palade granules. It mediates platelet adhesion to injured vessel walls and serves as a carrier and stabilizer for coagulation factor VIII. von Willebrand factor is one of the most useful markers to identify endothelial (or megakaryocytic) lineage of neoplasms. As not all endothelial cells synthesize / store) this molecule, about 30% of tumors of vascular origin fail to stain for factor VIII related antigen, regardless of whether they are benign or malignant. Staining for factor VIII related antigen has also been used to measure angiogenesis, an indicator of tumor recurrence.
Formulation	Recombinant Human Factor VIII Related Antigen protein at 2μg/20ul 50mM Tris-Acetate, pH7.5, 1mM EDTA and 20% Glycerol.
Application	•ELISA •Inhibition Assays •Western Blotting.

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Characterization	On SDS-PAGE commassie blue stained gel, the purified recombinant protein shows a band at 48 kDa.
Storage & Stability	Store vial at -20℃ to -80℃. When stored at the recommended temperature, this protein is stable for 12 months.

GENE INFORMATION

Gene Name	VWF von Willebrand factor [Homo sapiens]
Synonyms	VWF; von Willebrand factor; von Willebrand antigen 2; von Willebrand antigen II; F8VWF; F8; VWD; vWF; coagulation factor VIII VWF
Gene ID	7450
mRNA Refseq	NM_000552
Protein Refseq	NP_000543
MIM	193400
UniProt ID	P04275
Chromosome Location	12p13.3
Pathway	Complement and coagulation cascades; ECM-receptor interaction; Focal adhesion; Hemostasis; Integrin cell surface interactions
Function	chaperone binding; collagen binding; glycoprotein binding; immunoglobulin binding; integrin binding; protease binding; protein N-terminus binding; protein

	homodimerization activity

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