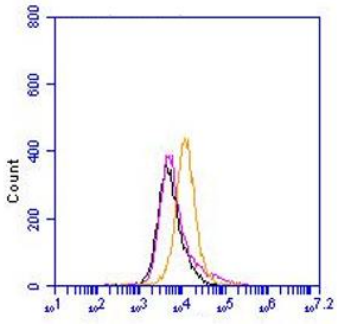
CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	Von Willebrand Factor, Human, clone 3E2D10		
Catalog number	HM2363		
Lot number	-	**Expiry date**	-
Volume	1 ml	**Amount**	100 µg
Formulation	0.2 µm filtered in PBS+0.02%NaN3+0.1%BSA	**Concentration**	100 µg/ml
Host Species	Mouse IgG1	**Conjugate**	None
Endotoxin	N.A.	**Purification**	Protein G
Storage	4°C		

Application notes

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #								
Yes		•	•	•				•
No								
N.D.	•				•	•	•	

N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot



FC: 3ED210 was used with 1µg/120000 HUVEC cells. Yellow line represents 3E2D10, the blue and pink the cells only and isotype control.

Dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50.

- FC: extracellular staining domain of vWF.
- W: A non-reduced sample treatment was used. The band size is ~330 kDa.
- IHC-P: Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes.

General Information

Description

Mouse monoclonal antibody clone 3E2D10 recognizes human Von Willebrand Factor (vWF). vWF is a glycosylated protein expressed in endothelial cells (EC) and megakaryocytes. It contains multiple domains and exist as a multimer. vWF main function is to control blood hemostasis. Others functions include angiogenesis and vascular inflammation. It mediates platelet adhesion and stabilizes factor VIII. Its action is tightly regulated by ADAMTS13, which cleaves vWF at the peptide in domain A2. Majority of synthesized vWF multimers is stored in Weibel-Palade bodies of ECs or in platelets. The function of vWF is dependent on the size of the multimers. The larger the fragment, the stronger the thrombogenic capacity. Larger fragments bind more easily to circulating platelets. This underlines the importance of ADAMTS13 function. The vWF/ADAMTS13 axis is predominantly initiated under shear stress.
Von Willebrand disease (VWD) is the most common inherited bleeding disorder and is due to deficiency and/or abnormality of vWF. Measurement of vWF is key in the diagnosis of VWD. Nowadays, new roles are identified of the vWF/ADAMTS13 axis in vascular inflammation like process of leukocyte extravasation, ischemia injury, NETosis and complement activation. This implicates involvement in among others atherosclerosis, diabetes and sepsis. This make vWF an attractive biomarker in thrombinflammation.

Immunogen	Amino acids 845-949
Aliases	von Willebrand Factor, vWF
Gene	Gene name: VWF, F8VWF Entrez Gene ID: 7450 Uniprot: P04275
Storage&stability	Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.
Precautions	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.

We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC	Date
Robbert Zwinkels	16/03/2018

Do you have any questions or comments regarding this product? Please contact us via support@hycultbiotech.com.