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# TECHNOZYM<sup>®</sup> von Willebrand Factor : CBA

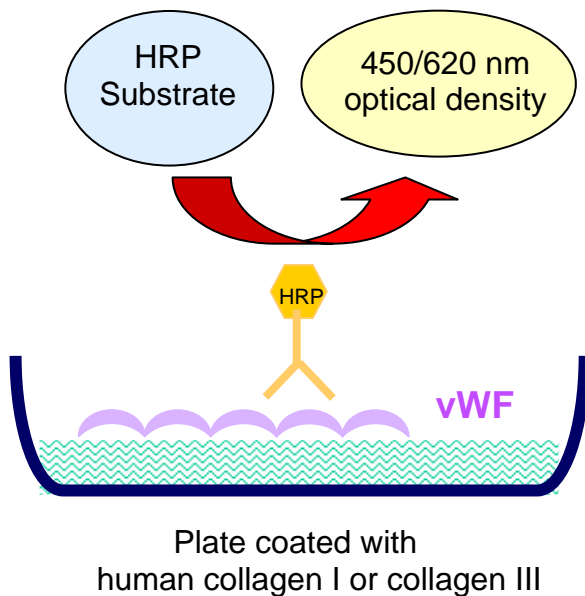
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## BACKGROUND:

The complex multimeric adhesive glycoprotein **von Willebrand Factor (vWF)** mediates platelet adhesion to the sub-endothelium by binding to collagen structures of the endothelium and to the platelet surface receptor GPIb and is involved in stabilization of clotting Factor VIII.

Von Willebrand Disease (vWD) is caused either by partially (type 1) or almost completely (type 3) reduced levels of vWF or by defects in the vWF molecule (type 2).

## TEST PRINCIPLE OF THE vWF:CBA



## DIAGNOSIS OF VON WILLEBRAND DISEASE

For the diagnosis of vWD a combination of two methods is used:

- ELISA for determination of vWF antigen (vWF:Ag)
- Collagen Binding Assay, a Bio-Immuno-Assay of vWF function (vWF:CBA)

## ASSAY CHARACTERISTICS

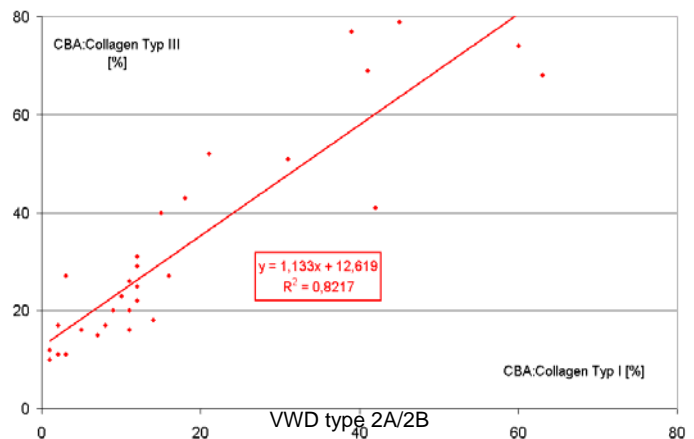
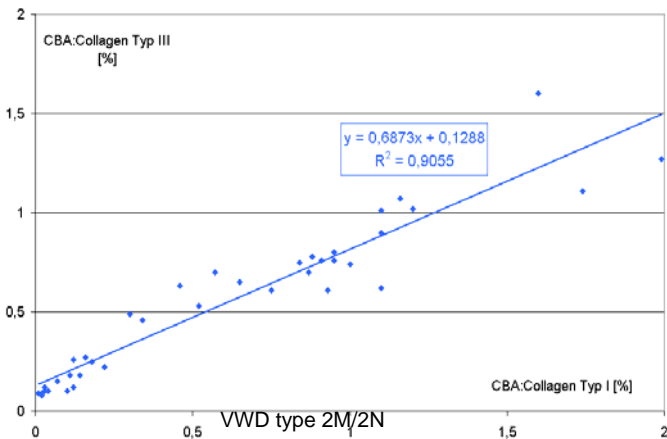
The TECHNOZYM<sup>®</sup> vWF:CBA ELISA

- is a Bio-Immuno-Assay, based on the ability of vWF to bind collagen
- reflects a true physiological activity of vWF in plasma and concentrates
- can identify samples which lack large haemostatically effective vWF multimers
- can better distinguish types 2 A and 2 B from type 1 vWD
- is a marker of DDAVP (desamino-8-D-arginine vasopressin) responsiveness
- detects the high concentrations of HMW vWF in TTP (Thrombotic Thrombocytopenic Purpura)
- detects the low concentrations of HMW vWF in ET (Essential Thrombocythemia)
- can be used for testing FVIII/vWF concentrates
- can be performed in parallel to the vWF:Ag determination

## ADVANTAGES OF TECHNOZYM® vWF:CBA COMPARED TO vWF:RiCoF ASSAY:

- provides better reproducibility
- is more sensitive
- correlates better with the high molecular weight (HMW) multimer pattern of vWF
- allows better detection of type 3 vWD. VWF:CBA collagen III has a better sensitivity than vWF:CBA collagen I in the range between 1-10% and is therefore better for detection of type 3 vWD
- is more sensitive in detection of small quantities of vWF in severe type 1 vWD

## CORRELATION BETWEEN vWF:CBA COATED WITH COLLAGEN I AND III FOR TYPE 2M/2N AND 2A/2B vWD \*



\* P278 Siegemund GTH 2006; Basel

## ORDERING INFORMATION

- REF 5450201 TECHNOZYM® vWF:Ag ELISA 96 T.
- REF 5450210 TECHNOZYM® vWF:Ag Calibrator Set 5 x 0,5 mL
- REF 5450212 TECHNOZYM® vWF:Ag Control Set 2 x 0,5 mL
- REF 5450301 TECHNOZYM® vWF:CBA human Collagen Typ III ELISA 96 T.
- REF 5450310 TECHNOZYM® vWF:CBA Calibrator Set 5 x 0,5 mL
- REF 5450312 TECHNOZYM® vWF:CBA Control Set 2 x 0,5 mL
- REF 5450311 TECHNOZYM® vWF:CBA human Collagen Typ I ELISA 96 T.

## RELATED PRODUCTS

- REF 5450501 TECHNOZYM® ADAMTS-13 (*fluorogenic Activity/Antigen*) ELISA 2 x 48 T.
- REF 5450551 TECHNOZYM® ADAMTS-13 (*fluorogenic Activity/Antigen*) ELISA 48 T.
- REF 5450401 TECHNOZYM® ADAMTS-13 INH ELISA 2 x 48 T.
- REF 5450451 TECHNOZYM® ADAMTS-13 INH ELISA 48 T.
- REF 5450601 TECHNOZYM® ADAMTS-13 Antigen ELISA 96 T. **NEW!**
- REF 5450701 TECHNOZYM® ADAMTS-13 Activity ELISA 96 T. **NEW!**