**BACKGROUND**

Von Willebrand disease is a congenital bleeding disorder caused by defects in the von Willebrand factor protein (VWF). VWF is a multimeric glycoprotein that is found in endothelial cells, plasma and platelets, and it is involved in the coagulation of blood at injury sites. VWF acts as a carrier protein for Factor VIII, a cofactor required for coagulation, and it promotes platelet aggregation. Several factors are known to stimulate the binding of VWF to platelets, including glycoprotein Ib, ristocetin, botrocetin, collagen, sulphatides and heparin. Of the several domains contained within VWF, the A1, A2 and A3 domains have been shown to mediate this activation. VWF is thought to undergo a variety of posttranslational modifications that influence the affinity and availability for Factor VII, including cleavage of the propeptide and formation of N-terminal intersubunit disulfide bonds.

**CHROMOSOMAL LOCATION**

Genetic locus: VWF (human) mapping to 12p13.31; VWF (mouse) mapping to 6 F3.

**SOURCE**

VWF (C-12) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 2779-2813 near the C-terminus of VWF of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

VWF (C-12) is available conjugated to agarose (sc-365712 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-365712 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; and to either phycoerythrin (sc-365712 PE), fluorescein (sc-365712 FITC), Alexa Fluor® 488 (sc-365712 AF488) or Alexa Fluor® 647 (sc-365712 AF647), 200 µg/ml, for IF, IHC(P) and FCM.

Blocking peptide available for competition studies, sc-365712 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.

**APPLICATIONS**

VWF (C-12) is recommended for detection of VWF of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:100-1:3000).


Molecular Weight of VWF: 250 kDa.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blockig Reagent: sc-516214 and Western Blotting Luminoil Reagent: sc-2048.


**DATA**

![VWF (C-12) HRP: sc-365712 HRP. Direct western blot analysis of VWF expression in human platelet extract.](image1)

VWF (C-12) HRP: sc-365712 HRP. Direct western blot analysis of VWF expression in human platelet extract.

**SELECT PRODUCT CITATIONS**


**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

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**SANTA CRUZ BIOTECHNOLOGY, INC.**

**VWF (C-12): sc-365712**

**AB**

**BC**

**DATA**

![VWF (C-12) sc-365712. Near-infrared western blot analysis of VWF expression in human platelet extract (A) and HUV-EC-C whole cell lysate (B). Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgGκ BP-CFL 680: sc-516180.](image2)

VWF (C-12) sc-365712. Near-infrared western blot analysis of VWF expression in human platelet extract and HUV-EC-C whole cell lysate.

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