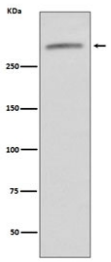
von Willebrand Factor Antibody for WB / VWF Western Blot Antibody [clone IHF-22] (RQ5050)

Catalog No.	Formulation	Size
RQ5050	Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA	100 ul

Bulk quote request

Availability	1-2 weeks
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	IHF-22
Purity	Affinity purified
UniProt	P04275
Applications	Western Blot : 1:500-1:2000
Limitations	This von Willebrand Factor antibody is available for research use only.



von Willebrand Factor Antibody for WB. Western blot of human serum lysate using von Willebrand Factor Antibody for WB (clone IHF-22) shows a prominent band at approximately 300-320 kDa, consistent with the predicted molecular weight of von Willebrand factor (VWF). The observed high molecular weight signal reflects the heavily glycosylated nature of VWF, which commonly migrates at an elevated apparent size on SDS-PAGE relative to its core polypeptide.

Description

Von Willebrand factor (VWF) is a large secreted glycoprotein encoded by the VWF gene and synthesized primarily by vascular endothelial cells and megakaryocytes. von Willebrand Factor Antibody for WB is optimized for western blot analysis, where accurate detection of VWF protein species under denaturing conditions is critical for interpreting expression and processing. VWF antibody, also referred to as von Willebrand factor antibody, is widely used in protein analysis studies examining coagulation biology, endothelial function, and platelet-related pathways.

VWF is synthesized as a precursor that undergoes extensive post-translational modification, including glycosylation, proteolytic cleavage, and multimerization into large adhesive complexes. These biochemical properties are especially important in western blot applications, as VWF typically migrates at a high apparent molecular weight and often appears as a broad or diffuse band due to heavy glycosylation. In addition, partial processing or degradation can result in lower molecular weight bands, which must be interpreted in the context of known VWF maturation and cleavage patterns.

von Willebrand Factor Antibody for WB is designed to detect VWF across these molecular forms, supporting clear identification of the expected high molecular weight species while also allowing visualization of processed or truncated variants. Clone IHF-22 provides a consistent monoclonal reagent for western blotting, enabling reproducible detection of VWF in complex lysates. This is particularly important for experiments where distinguishing full-length protein from cleavage products or altered forms is necessary for accurate biological interpretation.

In western blot analysis of tissue or cell lysates, VWF expression is typically observed in endothelial-derived samples and platelet-associated material, with signal intensity reflecting cellular origin and physiological state. Variability in band pattern can arise from differences in glycosylation, secretion status, or sample preparation, making a well-performing VWF western blot antibody essential for reliable results. The ability to detect both dominant high molecular weight bands and secondary lower molecular weight species enhances interpretation of VWF expression and processing.

Because of its complex post-translational profile, VWF is particularly well suited to analysis by western blot, where changes in molecular weight and band pattern provide insight into protein maturation, modification, and stability. von Willebrand Factor Antibody for WB supports these analyses by enabling consistent detection of VWF protein species, making it suitable for studies focused on protein expression, processing, and biochemical characterization.

Application Notes

Optimal dilution of the von Willebrand Factor Antibody for WB / VWF Western Blot Antibody should be determined by the researcher.

Immunogen

A synthetic peptide specific to human Von Willebrand Factor / VWF was used as the immunogen for the von Willebrand Factor Antibody for WB / VWF Western Blot Antibody.

Storage

Store the von Willebrand Factor antibody at -20oC.

Alternate Names

von Willebrand factor WB antibody, VWF western blot antibody, von Willebrand factor clone IHF-22 antibody, VWF clone IHF-22 antibody, VWF WB antibody