

## Product datasheet

# Anti-Von Willebrand Factor antibody [21-43] ab68545

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### Overview

<b>Product name</b>	Anti-Von Willebrand Factor antibody [21-43]
<b>Description</b>	Mouse monoclonal [21-43] to Von Willebrand Factor
<b>Host species</b>	Mouse
<b>Specificity</b>	ab68545 reacts strongly with human von Willebrand Factor in both plasma and tissues. The clone number has been updated from (2Q2134) to (21-43) both clone numbers name the same antibody clone.
<b>Tested applications</b>	<b>Suitable for:</b> IP, IHC-P, RIA, IHC-Fr, ICC/IF, ELISA
<b>Species reactivity</b>	<b>Reacts with:</b> Human, Pig
<b>Immunogen</b>	Full length protein (Human)

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.1% Sodium Azide Constituents: 50% Glycerol, PBS, pH 7.4
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	21-43
<b>Isotype</b>	IgG1

### Applications

Our [Abpromise guarantee](#) covers the use of **ab68545** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		Use at an assay dependent concentration.

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IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
RIA		Use at an assay dependent concentration.
IHC-Fr		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration. For Indirect Immunoperoxidase staining: Use at 1/50 dilution.
ELISA		Use at an assay dependent concentration.

## Target

<b>Function</b>	Important in the maintenance of hemostasis, it promotes adhesion of platelets to the sites of vascular injury by forming a molecular bridge between sub-endothelial collagen matrix and platelet-surface receptor complex GPIb-IX-V. Also acts as a chaperone for coagulation factor VIII, delivering it to the site of injury, stabilizing its heterodimeric structure and protecting it from premature clearance from plasma.
<b>Tissue specificity</b>	Plasma.
<b>Involvement in disease</b>	Defects in VWF are the cause of von Willebrand disease (VWD) [MIM:277480]. VWD defines a group of hemorrhagic disorders in which the von Willebrand factor is either quantitatively or qualitatively abnormal resulting in altered platelet function. Symptoms vary depending on severity and disease type but may include prolonged bleeding time, deficiency of factor VIII and impaired platelet adhesion. Type I von Willebrand disease is the most common form and is characterized by partial quantitative plasmatic deficiency of an otherwise structurally and functionally normal Willebrand factor; type II is associated with a qualitative deficiency and functional anomalies of the Willebrand factor; type III is the most severe form and is characterized by total or near-total absence of Willebrand factor in the plasma and cellular compartments, also leading to a profound deficiency of plasmatic factor VIII.
<b>Sequence similarities</b>	Contains 1 CTCK (C-terminal cystine knot-like) domain. Contains 4 TIL (trypsin inhibitory-like) domains. Contains 3 VWFA domains. Contains 3 VWFC domains. Contains 4 VWFD domains.
<b>Domain</b>	The von Willebrand antigen 2 is required for multimerization of VWF and for its targeting to storage granules.
<b>Post-translational modifications</b>	All cysteine residues are involved in intrachain or interchain disulfide bonds. N- and O-glycosylated.
<b>Cellular localization</b>	Secreted. Secreted > extracellular space > extracellular matrix. Localized to storage granules.

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