

Product datasheet

Anti-Factor V antibody ab182958

Overview

Product name	Anti-Factor V antibody
Description	Rabbit polyclonal to Factor V
Host species	Rabbit
Tested applications	Suitable for: Double Immunodiffusion, Immunodiffusion, IP
Species reactivity	Reacts with: Human
Immunogen	Full length native protein (purified) corresponding to Human Factor V. (Isolated from pooled human plasma). Database link: P12259
Positive control	Human plasma.
General notes	Measured by quantitative precipitin analysis the amount of Factor V precipitated by 1 ml antiserum is between 8 and 12 U. One Unit of Factor V is defined as the amount of Factor V present in 1 ml normal plasma. On average this corresponds to 20 µg.

Properties

Form	Lyophilised:Reconstitute the lyophilized antiserum by adding 1 ml sterile distilled water. If a slight precipitation occurs upon storage, this should be removed by centrifugation. It will not affect the performance of the antiserum.
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.1% Sodium azide No foreign proteins added.
Purity	Whole antiserum
Purification notes	Delipidated, heat inactivated, stable whole antiserum, dialyzed against glycine buffer. Total protein and IgG concentrations in ab182958 are comparable to those of pooled normal rabbit serum.
Clonality	Polyclonal
Isotype	IgG

Applications

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

Application	Abreviews	Notes
Double Immunodiffusion		Use at an assay dependent concentration. In double radial immunodiffusion use a rosette arrangement with 10 µl antiserum in 3 mm diameter center well and 2 µl plasma samples (neat and serially diluted) in 2 mm diameter peripheral wells.
Immunodiffusion		Use at an assay dependent concentration. In electroimmunodiffusion the antiserum concentration required in the gel is normally between 1 and 2%.
IP		Use at an assay dependent concentration.

Target

Function	Central regulator of hemostasis. It serves as a critical cofactor for the prothrombinase activity of factor Xa that results in the activation of prothrombin to thrombin.
Tissue specificity	Plasma.
Involvement in disease	Factor V deficiency Thrombophilia due to activated protein C resistance Budd-Chiari syndrome Ischemic stroke Pregnancy loss, recurrent, 1
Sequence similarities	Belongs to the multicopper oxidase family. Contains 3 F5/8 type A domains. Contains 2 F5/8 type C domains. Contains 6 plastocyanin-like domains.
Domain	Domain B contains 35 x 9 AA tandem repeats, and 2 x 17 AA repeats.
Post-translational modifications	Thrombin activates factor V proteolytically to the active cofactor, factor Va (formation of a heavy chain at the N-terminus and a light chain at the C-terminus). Sulfation is required for efficient thrombin cleavage and activation and for full procoagulant activity. Activated protein C inactivates factor V and factor Va by proteolytic degradation. Phosphorylation sites are present in the extracellular medium.
Cellular localization	Secreted.

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