abcam

## Product datasheet

# Anti-Factor VII antibody ab30906

### Overview

| | |
|---|---|
| **Product name** | Anti-Factor VII antibody |
| **Description** | Sheep polyclonal to Factor VII |
| **Host species** | Sheep |
| **Tested applications** | **Suitable for:** ELISA, WB |
| **Species reactivity** | **Reacts with:** Human |
| **Immunogen** | Full length protein (Human) |

### Properties

| | |
|---|---|
| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. |
| **Storage buffer** | Preservative: None<br>Constituents: 50% Glycerol, 0.15M Sodium chloride, 20mM HEPES. pH 7.4 |
| **Purity** | Ion Exchange Chromatography |
| **Purification notes** | = 98% No contaminants detected. Single band by SDS-PAGE, IEP, and/or RID. Purified by solid phase chromatography. |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |

### Applications

Our Abpromise guarantee covers the use of **ab30906** 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 |
|---|---|---|
| ELISA | | Use at an assay dependent dilution. |
| WB | | Use at an assay dependent dilution. Predicted molecular weight: 52 kDa. |

## Target

| | |
|---|---|
| **Function** | Initiates the extrinsic pathway of blood coagulation. Serine protease that circulates in the blood in a zymogen form. Factor VII is converted to factor VIIa by factor Xa, factor XIIa, factor IXa, or thrombin by minor proteolysis. In the presence of tissue factor and calcium ions, factor VIIa then converts factor X to factor Xa by limited proteolysis. Factor VIIa will also convert factor IX to factor IXa in the presence of tissue factor and calcium. |
| **Tissue specificity** | Plasma. |
| **Involvement in disease** | Defects in F7 are the cause of factor VII deficiency (FA7D) [MIM:227500]. FA7D is a rare hereditary hemorrhagic disease. The clinical picture can be very severe, with the early occurrence of intracerebral hemorrhages or hemarthroses, or, in contrast, moderate with cutaneous-mucosal hemorrhages (epistaxis, menorrhagia) or hemorrhages provoked by a surgical intervention. Numerous subjects are completely asymptomatic despite a very low F7 level. |
| **Sequence similarities** | Belongs to the peptidase S1 family.<br>Contains 2 EGF-like domains.<br>Contains 1 Gla (gamma-carboxy-glutamate) domain.<br>Contains 1 peptidase S1 domain. |
| **Post-translational modifications** | The vitamin K-dependent, enzymatic carboxylation of some glutamate residues allows the modified protein to bind calcium.<br>The iron and 2-oxoglutarate dependent 3-hydroxylation of aspartate and asparagine is (R) stereospecific within EGF domains. |
| **Cellular localization** | Secreted. |



## Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit http://www.abcam.com/abpromise or contact our technical team.

## Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors