bs-4846R **[Primary Antibody]**

Factor VII heavy chain Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2155 **SWISS:** P08709

Target: Factor VII heavy chain

Immunogen: KLH conjugated synthetic peptide derived from human Factor VII heavy chain: 301-400/466.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Coagulation factor VII, also known as Serum prothrombin conversion accelerator, Factor VII, F7 and FVII, is a member of the peptidase S1 family. Factor VII is one of the central proteins in the coagulation cascade. It is an enzyme of the serine protease class. Factor VII contains two EGF-like domains, one Gla (gamma-carboxy-glutamate) domain and one peptidase S1 domain. The main role of factor VII is to initiate the process of coagulation in conjunction with tissue factor (TF). Tissue factor is found on the outside of blood vessels, normally not exposed to the blood stream. The action of the Factor VII is impeded by tissue factor pathway inhibitor (TFPI), which is released almost immediately after initiation of coagulation. Factor VII is vitamin K dependent and is produced in the liver. The use of warfarin or similar anticoagulants impairs its function. Upon vessel injury, tissue factor is exposed to the blood and circulating Factor VII. Once bound to TF, FVII is activated to FVIIa by different proteases, among which are thrombin (factor IIa), factor Xa, IXa, XIIa, and the FVIIa-TF complex itself. The most important substrates for FVIIa-TF are Factor X and Factor IX.

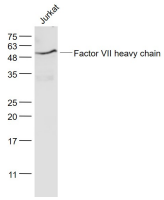
Applications: **WB** (1:500-2000)

Reactivity: Human

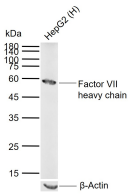
Predicted MW.: 28/51 kDa

Subcellular Location: Secreted

VALIDATION IMAGES



Sample: Jurkat(Human) Cell Lysate at 30 ug
Primary: Anti- Factor VII heavy chain (bs-4846R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 28/51 kD Observed band size: 50 kD



Sample: Lane 1: Human HepG2 cell lysates
Primary: Anti-Factor VII heavy chain (bs-4846R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 28/51 kDa Observed band size: 59 kDa

SELECTED CITATIONS

- **[IF=4.307]** Devin Cao. et al. Vascular Endothelial Cells Produce Coagulation Factors That Control Their Growth via Joint Protease-Activated Receptor and C5a Receptor 1 (CD88) Signaling. Am J Pathol. 2022 Feb;192:361 IF ;Mouse. 35144762
- **[IF=2.93]** Liu, Yang, et al. "A Simple Method for Isolating and Culturing the Rat Brain Microvascular Endothelial Cells." Microvascular Research (2013). Other ;Rat. 23978334