

bs-1037R**[Primary Antibody]****F2 Rabbit pAb**

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DATASHEET**Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GeneID:** 2147**SWISS:** P00734**Target:** F2**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml

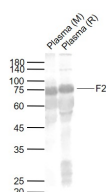
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Des-gamma carboxyprothrombin (DCP), also known as protein induced by vitamin K absence/antagonist-II (PIVKA-II), is an abnormal form of the coagulation protein, prothrombin. Normally, the prothrombin precursor undergoes post-translational carboxylation (addition of a carboxylic acid group) by gamma-glutamyl carboxylase in the liver prior to secretion into plasma. DCP/PIVKA-II may be detected in people with deficiency of vitamin K (due to poor nutrition or malabsorption) and in those taking warfarin or other medication that inhibits the action of vitamin K.

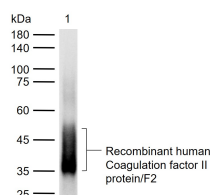
Applications: WB (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**Flow-Cyt** (1ug/test)**Reactivity:** Human, Mouse, Rat

Predicted
MW.: 70 kDa

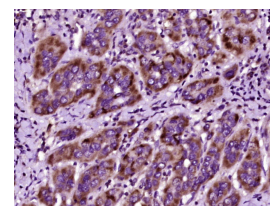
Subcellular
Location: Cytoplasm

VALIDATION IMAGES

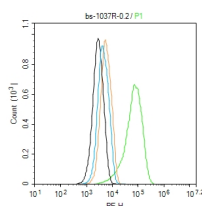
Sample: Lane 1: Plasma (Mouse) at 30 ug Lane 2: Plasma (Rat) at 30 ug Primary: Anti-F2 (bs-1037R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 70 kD Observed band size: 75 kD



Sample: Lane 1: Recombinant human Coagulation factor II protein/F2, C-His (HEK293)(bs-43654P) Primary: Anti-F2 (bs-1037R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 70 kDa Observed band size: 35-50 kDa



Paraformaldehyde-fixed, paraffin embedded (human liver carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (DCP) Polyclonal Antibody, Unconjugated (bs-1037R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Blank control: Raji. Primary Antibody (green line): Rabbit Anti-DCP antibody (bs-1037R) Dilution: 1µg / 10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody : Goat anti-rabbit IgG-PE Dilution: 1µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 0.1%PBST for 20 min at

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room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

— SELECTED CITATIONS —

- **[IF=6.2]** Chuanxin Liu. et al. Podophyllotoxin mediates hepatic toxicity via the C5a/C5aR/ROS/NLRP3 and cGMP/PKG/mTOR axis in rats based on toxicological evidence chain (TEC) concept by phosphoproteomic analysis. ECOTOX ENVIRON SAFE. 2025 Jan;289:117441 WB ;Rat. 39644570