Product datasheet

# Anti-F2 Antibody

**Catalog Number: *A00044***

BOSTER
antibody and ELISA experts
**BOSTER BIOLOGICAL TECHNOLOGY**
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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## Basic Information

| | |
|---|---|
| **Product Name** | Anti-F2 Antibody |
| **Gene Name** | F2 |
| **Source** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Species Reactivity** | human |
| **Tested Application** | WB, IHC, FCM, ELISA |
| **Contents** | 500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol. |
| **Immunogen** | E. coli-derived human Prothrombin recombinant protein (Position: Y97-R124). Human Prothrombin shares 64.9% and 63.2% amino acid (aa) sequence identity with mouse and rat Prothrombin, respectively. |
| **Concentration** | 500 ug/ml |
| **Purification** | Immunogen affinity purified. |
| **Observed MW** | 70-100 kDa |
| **Dilution Ratios** | Western blot (WB): 1:500-2000<br>Immunohistochemistry (IHC): 1:50-400<br>Flow Cytometry (Fixed): 1:50-200<br>Enzyme linked immunosorbent assay (ELISA): 1:100-1000<br>(Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user. |

## Storage

12 months from date of receipt，-20℃ as supplied.

## Background Information

F2 (Coagulation Factor II), also known as thrombin, is a serine protease that in humans is encoded by the F2 gene. This gene for human prothrombin (F2) was assigned to chromosome 11p11-q12 by analysis of a panel of somatic cell hybrid DNAs and by in situ hybridization, using both cDNA and genomic probes. The activated thrombin enzyme plays an important role in hemostasis and thrombosis: it converts fibrinogen to fibrin for blood clot formation, stimulates platelet aggregation, and activates coagulation factors V, VIII (F8), and XIII (F13A1). Thrombin also inhibits coagulation by

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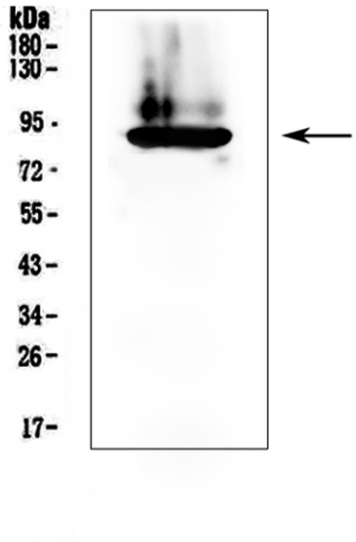
activating protein C.

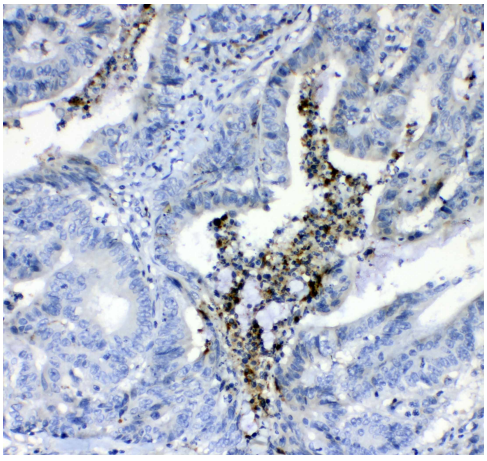
## Reference

Anti-F2 Antibody被引用在2文献中。

## Selected Validation Data




Western blot analysis of F2 using anti-F2 antibody (A00044). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human plasma lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-F2 antigen affinity purified polyclonal antibody (A00044) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for F2 at approximately 70-100 kDa. The expected band size for F2 is at 70 kDa.



IHC analysis of F2 using anti-F2 antibody (A00044).
F2 was detected in a paraffin-embedded section of human colon cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-F2 Antibody (A00044) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.

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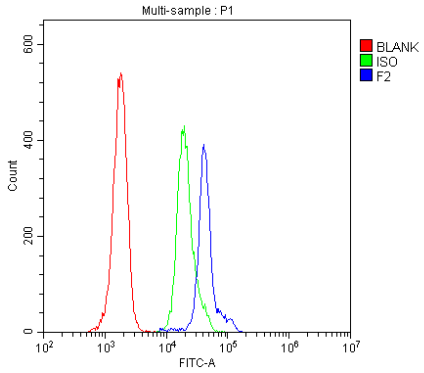


Flow Cytometry analysis of H-PBMC cells using anti- Prothrombin antibody (A00044).
Overlay histogram showing H-PBMC cells stained with A00044 (Blue line). Fluoro488 conjugated goat anti-rabbit IgG (BA1127, 1:100) was used as secondary antibody Isotype control antibody (Green line) was rabbit IgG (1:100) used under the same conditions. Unlabelled sample (Red line) was also used as a control.