

# Anti-Prothrombin Antibody

Catalog # ABO11366

## Product Information

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|--------------------------|--------------------------------------------------------------------------------------|
| <b>Application</b>       | WB                                                                                   |
| <b>Primary Accession</b> | <a href="#">P18292</a>                                                               |
| <b>Host</b>              | Rabbit                                                                               |
| <b>Reactivity</b>        | Rat                                                                                  |
| <b>Clonality</b>         | Polyclonal                                                                           |
| <b>Format</b>            | Lyophilized                                                                          |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for Prothrombin(F2) detection. Tested with WB in Rat. |
| <b>Reconstitution</b>    | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                 |

## Additional Information

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| <b>Other Names</b>           | Prothrombin, 3.4.21.5, Coagulation factor II, Activation peptide fragment 1, Activation peptide fragment 2, Thrombin light chain, Thrombin heavy chain, F2                         |
| <b>Calculated MW</b>         | 70412                                                                                                                                                                              |
| <b>Application Details</b>   | Western blot, 0.1-0.5 µg/ml, Rat                                                                                                                                                   |
| <b>Source</b>                | Eukaryota                                                                                                                                                                          |
| <b>Protein Name</b>          | Prothrombin                                                                                                                                                                        |
| <b>Contents</b>              | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg Na <sub>3</sub> .                                                       |
| <b>Immunogen</b>             | A synthetic peptide corresponding to a sequence at the C-terminus of rat Prothrombin(600-612aa THVFRLKRWMQKV).                                                                     |
| <b>Purification</b>          | Immunogen affinity purified.                                                                                                                                                       |
| <b>Cross Reactivity</b>      | No cross reactivity with other proteins                                                                                                                                            |
| <b>Storage</b>               | At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing. |
| <b>Sequence Similarities</b> | Belongs to the peptidase S1 family.                                                                                                                                                |

## Protein Information

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| <b>Name</b>     | F2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Function</b> | Thrombin, which cleaves bonds after Arg and Lys, converts fibrinogen to fibrin and activates factors V, VII, VIII, XIII, and, in complex with thrombomodulin, protein C. Functions in blood homeostasis, inflammation and wound healing. Activates coagulation factor XI (F11); activation is promoted by the contact with negatively charged surfaces (By similarity). Triggers the production of pro-inflammatory cytokines, such as MCP-1/CCL2 and IL8/CXCL8, in endothelial cells (By similarity). |

## Background

F2(Coagulation Factor II), also known as thrombin, is a serine protease that in humans is encoded by the F2 gene. Royle et al.(1987) assigned the gene for human prothrombin(F2) 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 activating protein C.

## Images



Anti- F2 antibody, ABO11366, Western blotting  
 All lanes:  
 Anti F2 (ABO11366) at 0.5ug/ml  
 WB : Rat Testis Tissue  
 Lysate at 50ug  
 Predicted bind size: 70KD  
 Observed bind size: 100KD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.