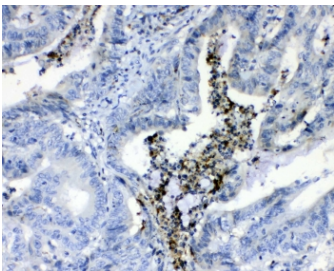


## Prothrombin Antibody (R32993)

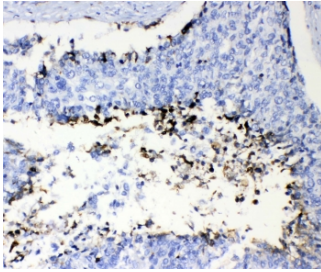
Catalog No.	Formulation	Size
R32993	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

### Bulk quote request

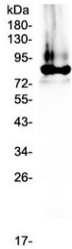
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Antigen affinity purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
<b>UniProt</b>	P00734
<b>Localization</b>	Secreted
<b>Applications</b>	Western Blot : 0.5-1ug/ml IHC (FFPE) : 1-2ug/ml Direct ELISA : 0.1-0.5ug/ml
<b>Limitations</b>	This Prothrombin antibody is available for research use only.



IHC testing of FFPE human colon cancer tissue with Prothrombin antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



IHC testing of FFPE human lung cancer tissue with Prothrombin antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to testing.



Western blot testing of human plasma lysate with Prothrombin antibody at 0.5ug/ml. Predicted molecular weight ~70 kDa, but may be observed at higher molecular weights due to glycosylation.

## Description

F2 (Coagulation Factor II), also known as prothrombin, 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 activating protein C.

## Application Notes

Optimal dilution of the Prothrombin antibody should be determined by the researcher.

## Immunogen

A recombinant human partial protein corresponding to amino acids Y67-R124 was used as the immunogen for the Prothrombin antibody.

## Storage

After reconstitution, the Prothrombin antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.