## Catalog No. LF-MA0171

MONOCLONAL ANTIBODY



# Anti-Prothrombin precursor (coagulation factor II)(28H5)

**Background**: Prothrombin precursor is synthesized in liver as a precursor of prothrombin containing a signal sequence and a propeptide domain at the N-terminus. Before its secretion into plasma, this precursor undergoes posttranslational modifications, including removal of signal sequence and propeptide domains, glycosylation, and y-glutamylcarboxylation reaction. Prothrombin, cleaved by the prothrombinase enzyme complex that consists of serine protease factor Xa, cofactor Va, phospholipids and calcium, is converted to thrombin which converts fibrinogen into fibrin which in protective strengthens a Activation of prothrombin is crucial in physiological and pathological coagulation. **Various** diseases involving prothrombin(e.g. hypoprothrombinemia) have been described.

Immunogen: Protein purified from

Human plasma

**Host**: mouse

Clone number: 28H5

Isotype: IgG2b, k

Size: 100 µl

**Compositon**: Hepes with 0.15M NaCl, 0.01% BSA, 0.05% Sodium azide and 50%

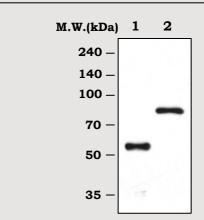
glycerol

**Positive control**: Protein purified from

Human plasma

**Storage**: Store for 1 year at -20°C from date of shipment

Species cross reactivity		
Human	Mouse	Rat
+	NT	NT



#### Immunoblot Analysis of human

plasma protein

Lane 1 : Prothrombin precursor isolated from human plasma
Lane 2 : Human plasma

### **Applications:**

ELISA

Western blotting(1: 2,000)

#### **Background Reference:**

- 1) Zhang P, Suttie JW, Blood 1994; vol.84: 169-75.
- 2) Taylor R, Wallin R, Biochem J. 1991; vol.277(Pt 1): pp.59–65.
- 3) J W Suttie, et al, Proc Natl Acad Sci U S A. 1987; vol.84(3): pp.634-7.

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