

## ARG81117 Human Prothrombin (total) ELISA Kit

Package: 96 wells  
Store at: 4°C

### Summary

Product Description	ARG81117 Human Prothrombin (total) ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Prothrombin (total) in plasma.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	Prothrombin
Conjugation	HRP
Conjugation Note	TMB substrate is used for color development at 450 nm.
Sensitivity	0.166 ng/ml
Sample Type	Plasma
Standard Range	0.25 - 100 ng/ml
Alternate Names	PT; EC 3.4.21.5; Prothrombin; THPH1; Coagulation factor II; RPRGL2

### Properties

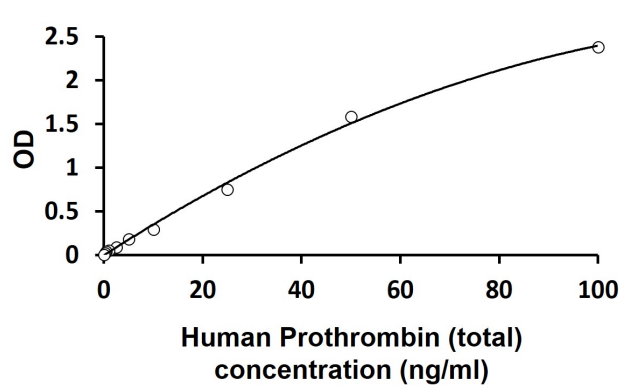
Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

### Bioinformation

Database links	<a href="#">GeneID: 2147 Human</a> <a href="#">Swiss-port # P00734 Human</a>
Gene Symbol	F2
Gene Full Name	coagulation factor II (thrombin)
Background	Coagulation factor II is proteolytically cleaved to form thrombin in the first step of the coagulation cascade which ultimately results in the stemming of blood loss. F2 also plays a role in maintaining vascular integrity during development and postnatal life. Peptides derived from the C-terminus of this protein have antimicrobial activity against E. coli and P. aeruginosa. Mutations in F2 lead to various forms of thrombosis and dysprothrombinemia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2015]
Function	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. [UniProt]
Highlight	Related products: <a href="#">Thrombin antibodies</a> ; <a href="#">Thrombin ELISA Kits</a> ; New ELISA data calculation tool:

Research Area	Cell Biology and Cellular Response kit
PTM	<p>The gamma-carboxyglutamyl residues, which bind calcium ions, result from the carboxylation of glutamyl residues by a microsomal enzyme, the vitamin K-dependent carboxylase. The modified residues are necessary for the calcium-dependent interaction with a negatively charged phospholipid surface, which is essential for the conversion of prothrombin to thrombin.</p> <p>N-glycosylated. N-glycan heterogeneity at Asn-121: Hex3HexNAc3 (minor), Hex4HexNAc3 (minor) and Hex5HexNAc4 (major). At Asn-143: Hex4HexNAc3 (minor) and Hex5HexNAc4 (major).</p>

Images



ARG81117 Human Prothrombin (total) ELISA Kit standard curve image

ARG81117 Human Prothrombin (total) ELISA Kit results of a typical standard run with optical density reading at 450 nm.