

Datasheet for ABIN6720235  
**Thrombomodulin ELISA Kit**



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1 Image

## Overview

Quantity:	1 kit
Target:	Thrombomodulin (THBD)
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	62.5 pg/mL - 4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

## Product Details

Purpose:	Human Thrombomodulin Sandwich ELISA Kit for Quantitative Detection
Brand:	AccuSignal™
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Production: Natural and recombinant human Thrombomodulin. There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	< 10 pg/mL
Components:	<ul style="list-style-type: none"><li>• Antibody-coated 96-well plate</li><li>• Target Protein Standard</li><li>• Detection antibody</li></ul>

## Product Details

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- Detection reagent
- Diluent buffers
- Wash buffers
- Substrate Solution
- Stop solutions
- Adhesive covers

## Target Details

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Target: Thrombomodulin (THBD)

Alternative Name: Thrombomodulin ([THBD Products](#))

Background: Synonyms: CD141, CD141 antigen, Fetomodulin, Thbd, THRM, Thrombomodulin, TM, TRBM\_HUMAN

Background: Thrombomodulin(TM), CD141 or BDCA-3 is an integral membrane protein expressed on the surface of endothelial cells and serves as a cofactor for thrombin. It reduces blood coagulation by converting thrombin to an anticoagulant enzyme from a procoagulant enzyme. Thrombomodulin is also expressed on human mesothelial cell, monocyte and a dendritic cell subset. In humans, thrombomodulin is encoded by the THBD gene. The protein has a molecular mass of 74 kDa, and consists of a single chain with 5 distinct domains. Thrombomodulin functions as a cofactor in the thrombin-induced activation of protein C in the anticoagulant pathway by forming a 1:1 stoichiometric complex with thrombin. This raises the speed of protein C activation thousandfold. Thrombomodulin-bound thrombin has procoagulant effect at the same time by inhibiting fibrinolysis by cleaving thrombin-activatable fibrinolysis inhibitor(TAFI, aka carboxypeptidase B2) into its active form. Thrombomodulin is a glycoprotein on the surface of endothelial cells that, in addition to binding thrombin, regulates C3b inactivation by factor I. Mutations in the thrombomodulin gene(THBD) have also been reported to be associated with atypical hemolytic-uremic syndrome(aHUS).

Gene ID: 7056

NCBI Accession: [NP\\_000352](#)

UniProt: [P07204](#)

## Application Details

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Application Notes: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL human Thrombomodulin standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample

## Application Details

diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum, plasma (heparin, EDTA, citrate) or urine to each empty well. We recommend that each human Thrombomodulin standard solution and each sample is measured in duplicate.

Comment: Standard: Expression system for standard: NSO, Immunogen sequence: A19-S515

Sample Volume: 100  $\mu$ L

Plate: Pre-coated

Restrictions: For Research Use only

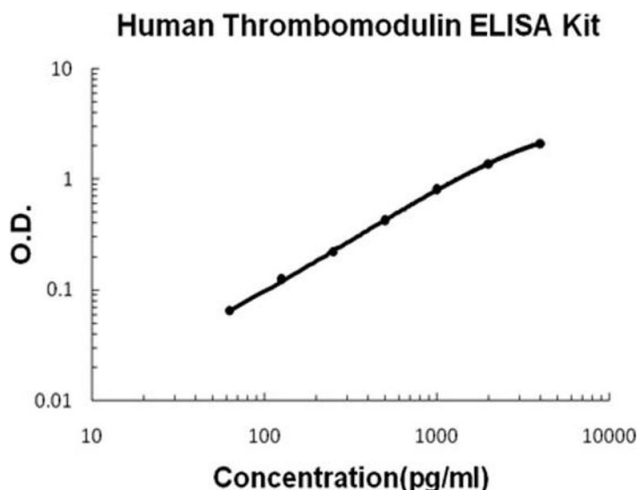
## Handling

Storage: 4 °C, -20 °C

Storage Comment: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

Expiry Date: 12 months

## Images



### ELISA

**Image 1.** Human Thrombomodulin Accusignal ELISA Kit Human Furin AccuSignal ELISA Kit standard curve. Assay Range : 62.5pg/ml-4000pg/ml. Sensitivity: <10pg/ml.