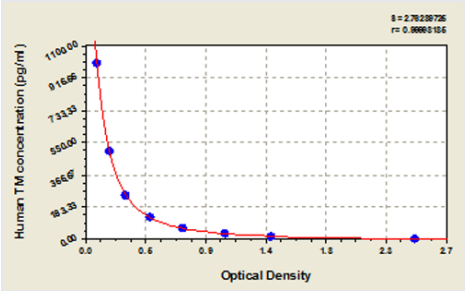
Thrombomodulin (THBD) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	thrombomodulin (THBD), ELISA Kit
Full Product Name	Human thrombomodulin, TM ELISA Kit
Product Gene Name	THBD elisa kit
Product Synonym Names	Human thrombomodulin; TM ELISA Kit; AHUS6; CD141; THRM; TM; CD141 antigen; fetomodulin; thrombomodulin
Species Reactivity	Human
Assay Type	Quantitative Sandwich
Samples	Serum, plasma, tissue `homogenates
Detection Range	0.312 ng/ml-20 ng/ml
Sensitivity	< 0.078 ng/ml
Specificity	This assay has high sensitivity and excellent specificity for detection of human TM. No significant cross-reactivity or interference between human TM and analogues was observed.
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.
Inter-assay Precision	Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV%<8%. Three samples of known concentration were tested twenty times on one plate to assess.
Molecular Weight	60,329 Da
OMIM	614486
3D Structure	ModBase 3D Structure for P07204
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for THBD elisa kit	Principle of the Assay: This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for TM has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TM present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TM is added to the wells. After washing, avidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of TM bound in the initial step. The color development is stopped and the intensity of the color is measured.
Other Notes	Small volumes of THBD elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for THBD purchase	MBS700007 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the thrombomodulin (THBD) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing THBD. The ELISA analytical biochemical technique of the MBS700007 kit is based on THBD antibody-THBD antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect THBD antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, THBD. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of THBD elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for THBD. It may not necessarily be applicable to this product.

NCBI GI #	4507483
NCBI GeneID	7056
NCBI Accession #	NP_000352.1
UniProt Primary Accession #	P07204
UniProt Secondary Accession #	Q8IV29; Q9UC32
UniProt Related Accession #	P07204
GenBank Nucleotide #	NM_000361.2
NCBI Official Full Name	thrombomodulin
NCBI Official Synonym Full Names	thrombomodulin
NCBI Official Symbol	THBD
NCBI Official Synonym Symbols	TM; THRM; AHUS6; BDCA3; CD141; THPH12
UniProt Protein Name	Thrombomodulin
UniProt Synonym Protein Names	Fetomodulin; CD_antigen: CD141
Protein Family	Thrombomodulin
UniProt Gene Name	THBD
UniProt Synonym Gene Names	THRM; TM
UniProt Entry Name	TRBM_HUMAN
NCBI Protein Information	thrombomodulin; fetomodulin; CD141 antigen
NCBI Summary for THBD	The protein encoded by this intronless gene is an endothelial-specific type I membrane receptor that binds thrombin. This binding results in the activation of protein C, which degrades clotting factors Va and VIIIa and reduces the amount of thrombin generated. Mutations in this gene are a cause of thromboembolic disease, also known as inherited thrombophilia. [provided by RefSeq, Jul 2008]
UniProt Comments for THBD	**Function:** Thrombomodulin is a specific endothelial cell receptor that forms a 1:1 stoichiometric complex with thrombin. This complex is responsible for the conversion of protein C to the activated protein C (protein Ca). Once evolved, protein Ca scissions the activated cofactors of the coagulation mechanism, factor Va and factor VIIIa, and thereby reduces the amount of thrombin generated.
Research Articles on THBD	**1.** TM 1418C/T polymorphism is independent predictor of AMI and synergies with smoking.

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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