THBD Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	THBD, Blocking Peptide
Full Product Name	THBD Peptide - middle region
Product Gene Name	THBD blocking peptide
Product Synonym Gene Name	TM; THRM; AHUS6; BDCA3; CD141; THPH12
Sequence	Synthetic peptide located within the following region: FCSGVCHNLP GTFECICGPD SALARHIGTD CDSGKVDGGD SGSGEPPPSP
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	THBD peptide (MBS3245604) is used for blocking the activity of THBD antibody (MBS3220807)
Molecular Weight	60 kDa
OMIM	188040
Product Categories/Family for THBD blocking peptide	Peptide
Applications Tested/Suitable for THBD blocking peptide	Western Blot (WB)
Related Product Information for THBD blocking peptide	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.
Other Notes	Small volumes of THBD blocking peptide 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	MBS3245604 is a blocking peptide targeting THBD. Also known as THBD Peptide - middle region. Reactive in Human.

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 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
Protein Family	Thrombomodulin
UniProt Gene Name	THBD
UniProt Synonym Gene Names	THRM; TM
UniProt Entry Name	TRBM_HUMAN
NCBI Protein Information	thrombomodulin
UniProt Comments for THBD	thrombomodulin: 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. Defects in THBD are the cause of thrombophilia due to thrombomodulin defect (THPH12). A hemostatic disorder characterized by a tendency to thrombosis. Defects in THBD are a cause of susceptibility to hemolytic uremic syndrome atypical type 6 (AHUS6). An atypical form of hemolytic uremic syndrome. It is a complex genetic disease characterized by microangiopathic hemolytic anemia, thrombocytopenia, renal failure and absence of episodes of enterocolitis and diarrhea. In contrast to typical hemolytic uremic syndrome, atypical forms have a poorer prognosis, with higher death rates and frequent progression to end-stage renal disease. Susceptibility to the development of atypical hemolytic uremic syndrome can be conferred by mutations in various components of or regulatory factors in the complement cascade system. Other genes may play a role in modifying the phenotype. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 20p11.2 Cellular Component: extracellular space; cell surface; integral to plasma membrane; plasma membrane Molecular Function: protein binding; transmembrane receptor activity; calcium ion binding; receptor activity Biological Process: negative regulation of fibrinolysis; response to cAMP; negative regulation of blood coagulation; response to lipopolysaccharide; female pregnancy; signal transduction; blood coagulation; leukocyte migration; response to X-ray Disease: Thrombophilia Due To Thrombomodulin Defect; Hemolytic Uremic Syndrome, Atypical, Susceptibility To, 6
Research Articles on THBD	**1.** Thrombomodulin gene C1418T polymorphism is associated with Kawasaki disease.
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