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Human CellExp Thrombomodulin, Human recombinant protein
CD141, BDCA-3, THBD, TM
Catalog # PBV10845r

Specification

Human CellExp Thrombomodulin, Human recombinant protein - Product info

Primary Accession	P07204
Calculated MW	**51.4 kDa KDa**

Human CellExp Thrombomodulin, Human recombinant protein - Additional Info

Gene ID	**7056**
Gene Symbol	**THBD**
Other Names	
CD141, BDCA-3, THBD, TM	
Gene Source	**Human**
Source	**HEK 293 cells**
Assay&Purity	**SDS-PAGE; ≥98%**
Assay2&Purity2	**HPLC;**
Recombinant	**Yes**
Sequence	**APAEPQPGGS QCVEHDCFAL YPGPATFLNA SQICDGLRGH LMTVRSSVAA DVISLLLNGD GGVGRRRLWI GLQLPPGCGD PKRLGPLRGF QWVTGDNNTS YSRWARLDLN GAPLCGPLCV AVSAAEATVP SEPIWEEQQC EVKADGFLCE FHFPATCRPL AVEPGAAAAA VSITYGTPFA ARGADFQALP VGSSAAVAPL GLQLMCTAPP GAVQGHWARE APGAWDCSVE NGGCEHACNA IPGAPRCQCP AGAALQADGR SCTASATQSC NDLCEHFCVP NPDQPGSYSC MCETGYRLAA DQHRCEDVDD CILEPSPCPQ RCVNTQGGFE CHCYPNYDLV DGECVEPVDP CFRANCEYQC QPLNQTSYLC VCAEGFAPIP HEPHRCQMFC NQTACPADCD PNTQASCECP EGYILDDGFI CTDIDECENG GFCSGVCHNL PGTFECICGP DSALARHIGT DCDSGKVDGG DSGSGEPPPS PTPGSTLTPP A**

Target/Specificity
Thrombomodulin

Application Notes
Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Format
Lyophilized powder

Storage
-20°C; Sterile filtered through a 0.2 micron filter. Lyophilized from 10 mM Sodium phosphate, pH 7.5.

Human CellExp Thrombomodulin, Human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Human CellExp Thrombomodulin, Human recombinant protein - Images

Human CellExp Thrombomodulin, Human recombinant protein - Background

Thrombomodulin (TM, CD141, and THBD) is an endothelial cell expressed transmembrane glycoprotein that can form a complex with the coagulation factor, Thrombin. The Thrombomodulin/Thrombin complex converts protein C to its activated form, protein Ca, which in turn proteolytically cleaves and deactivates factor Va and factor VIIIa, two essential components of the coagulation mechanism. This inactivation reduces the generation of additional thrombin and thereby effectively prevents continued coagulation. Reduced levels of Thrombomodulin can correlate with the pathogenesis of certain cardiovascular diseases, such as atherosclerosis and thrombosis. However, the serum levels of the truncated circulating form of Thrombomodulin are typically elevated during inflammation and in the presence of various inflammatory related diseases. Recombinant soluble Thrombomodulin is a 491 amino acid glycoprotein containing the extracellular domain of Thrombomodulin.

Human CellExp Thrombomodulin, Human recombinant protein - References

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Deloukas P.,et al.Nature 414:865-871(2001).