

Datasheet: PHP251

Description:	RECOMBINANT HUMAN CD141
Name:	CD141
Other names:	THROMBOMODULIN
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	10 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Functional Assays	■			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified recombinant protein - lyophilised
Reconstitution	Reconstitute with 0.1ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. Further may be prepared in a buffer containing 0,1% BSA.
Preparation	Purified recombinant CD141 expressed in HEK293 cells
Buffer Solution	10mM Sodium Phosphate
Preservative Stabilisers	None present
Endotoxin Level	< 1.0 EU/ug
Approx. Protein Concentrations	0.1mg/ml after reconstitution
External Database Links	UniProt: P07204 Related reagents Entrez Gene:

Synonyms THRM

Product Information **Recombinant Human CD141 antigen** produced in HEK293 cells represents full length human CD141, otherwise known as Thrombomodulin, is a transmembrane glycoprotein specifically synthesized by endothelial cells, which plays a critical role in the activation/conversion of protein C into protein Ca, through the formation of a complex with the coagulation factor Thrombin. The subsequent cleavage and deactivation of the coagulation factors Va and factor VIIIa by protein Ca, acts to reduce Thrombin production and hence prevent further coagulation.

Plasma levels of CD141 are increased in diabetes mellitus and SLE, and Thrombomodulin can correlate with the pathogenesis of the cardiovascular diseases thrombosis and atherosclerosis.

Recombinant soluble Thrombomodulin contains 491 amino acid residues, including the extracellular domain of Thrombomodulin.

Activity Measured by its ability to activate protein C induced cleavage of the chromogenic substrate, BOC-Asp-Pro Arg-AMC in the presence of Thrombin. The specific activity is >500 pmoles/min/ug.

Purity >98% by SDS PAGE and HPLC analysis

Storage Prior to reconstitution store at +4°C.
After reconstitution store at -20°C.
Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 3 months from date of reconstitution.

Health And Safety Information Material Safety Datasheet documentation #10345 available at:
10345: <https://www.bio-rad-antibodies.com/uploads/MSDS/10345.pdf>

Regulatory For research purposes only

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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Printed on 11 Oct 2019