

Datasheet: MCA641

Description:	MOUSE ANTI HUMAN CD141
Specificity:	CD141
Other names:	THROMBOMODULIN
Format:	S/N
Product Type:	Monoclonal Antibody
Clone:	QBEND/40
Isotype:	IgG2a
Quantity:	1 ml

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
Flow Cytometry	▪			Neat
Immunohistology - Frozen	▪			1/10 - 1/100
Immunohistology - Paraffin (1)	▪			1/10 - 1/50
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species

Human

Species Cross Reactivity

Reacts with: Rabbit

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Tissue Culture Supernatant - liquid

Preparation	Tissue Culture Supernatant containing 0.2M Tris/HCl pH7.4 and 5-10% foetal calf serum
Preservative Stabilisers	0.1% Sodium Azide
Immunogen	Human endothelium derived thrombomodulin.
External Database Links	<p>UniProt: P07204 Related reagents</p> <p>Entrez Gene: 7056 THBD Related reagents</p>
Synonyms	THRM
RRID	AB_2287220
Specificity	Mouse anti Human CD141 antibody, clone QBEND/40 recognizes human CD141, also known as thrombomodulin. Mouse anti Human CD141 antibody, clone QBEND/40 all human endothelium tested, but does not inhibit thrombomodulin dependent activation of protein C.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
Histology Positive Control Tissue	Lymph node
References	<ol style="list-style-type: none"> 1. Drake, B.L. & Loke, Y.W. (1991) Isolation of endothelial cells from human first trimester decidua using immunomagnetic beads. Hum Reprod. 6 (8): 1156-9. 2. Xu, Y. <i>et al.</i> (2010) Adenovirus-mediated overexpression of glutathione-s-transferase mitigates transplant arteriosclerosis in rabbit carotid allografts. Transplantation. 89:409-16. 3. Monsinjon, T. <i>et al.</i> (2003) Regulation by complement C3a and C5a anaphylatoxins of cytokine production in human umbilical vein endothelial cells. FASEB J. 17: 1003-14. 4. Yockman, J.W. <i>et al.</i> (2009) Polymeric gene delivery of ischemia-inducible VEGF significantly attenuates infarct size and apoptosis following myocardial infarct. Gene Ther. 16: 127-35. 5. Holmén, C. <i>et al.</i> (2005) Heterogeneity of human nasal vascular and sinusoidal endothelial cells from the inferior turbinate. Am J Respir Cell Mol Biol. 32: 18-27. 6. Yamada, A. <i>et al.</i> (2012) Acute regeneration and chronic acellular transformation of rabbit cryopreserved aortic allografts. Acta Histochem Cytochem. 45: 177-86. 7. Kaija, H. <i>et al.</i> (2014) Changes in cardiac thrombomodulin and heat shock transcription factor 1 expression and peripheral thrombomodulin and catecholamines during hypothermia in rats. Stress. 17: 504-11. 8. Chu, C.C. <i>et al.</i> (2012) Resident CD141 (BDCA3)+ dendritic cells in human skin produce IL-10 and induce regulatory T cells that suppress skin inflammation. J Exp Med. 209: 935-45. 9. Kaija, H.M. <i>et al.</i> (2012) Stress-specific responses of p21 expression: implication of transcript variant p21 alt-a in long-term hypoxia. J Cell Biochem. 113: 544-52.

10. Pakanen, L. *et al.* (2015) Victims of lethal hypothermia have decreased levels of thrombomodulin in myocardium and urine. [Int J Legal Med. 129 \(2\): 289-96.](#)
11. Jonigk, D. *et al.* (2011) Plexiform lesions in pulmonary arterial hypertension composition, architecture, and microenvironment. [Am J Pathol. 179 \(1\): 167-79.](#)

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10336 available at: 10336: <https://www.bio-rad-antibodies.com/uploads/MSDS/10336.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Goat Anti Mouse IgG (STAR76...)	RPE
Human Anti Mouse IgG2a (HCA037...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@550 , DyLight@650 , DyLight@680 , DyLight@800 , FITC , HRP

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

North & South America	Tel: +1 800 265 7376 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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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
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