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## **CD141 / Thrombomodulin Ab-1 (Clone 141C01; same as 1009)**

### **Mouse Monoclonal Antibody**

**Cat. #DLN-06363, -06364 or -06362 (0.1ml, 0.5ml, or 1.0ml Supernatant)**

**Cat. #DLN-06361 (7.0ml)** (Ready-to-Use for Immunohistochemical Staining)

**Description:** Thrombomodulin (TM) is also known as Fetomodulin (FM), endothelial anticoagulant protein, or glycoprotein P112. Thrombomodulin contains six repeated domains homologous with epidermal growth factor (EGF) and an amino terminal domain homologous to lectin-like protein. Through its accelerated activation of protein C, synthesis of TM is one of several mechanisms important in maintaining thrombo-resistance and thus reducing clot formation on the surface of the endothelial cells. Immunohistochemical staining of formalin-fixed tissue for TM has been used for the study of a variety of vascular tumors, meningiomas and choriocarcinomas.

**Mol. Wt. of Antigen:** 75kDa

**Epitope:** EGF domain

**Species Reactivity:** Human and Rat. Others not-known.

**Clone Designation:** 141C01 (same as 1009)

**Ig Isotype / Light Chain:** IgG<sub>1</sub> / k

**Immunogen:** Recombinant protein encoding the six repeated EGF domains of human thrombomodulin.

### **Applications and Suggested Dilutions:**

- Immunohistology (Formalin/paraffin)  
(Ab 1:25-1:50 for 60 min at RT)
- \* [Staining of formalin-fixed tissues REQUIRES boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min.]

The optimal dilution for a specific application should be determined by the investigator.

**Positive Control:** Mesothelioma

**Cellular Localization:** Cell membrane

### **Supplied As:**

Tissue culture supernatant with 0.09% sodium azide or prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

### **Storage and Stability:**

Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months.

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**DATA SHEET**

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### ***Suggested References:***

1. Fink L, et al. Intl J Develop Biol 1993; 37:221
2. Ford VA, et al. J Biol Chem 1992; 267:5446
3. Collins CL, et al. Amer J Pathol 1992; 141(4): 827

### ***Limitations and Warranty:***

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. Dianova is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

### ***Material Safety Data:***

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

***For Research Use Only***

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