**BACKGROUND**

Thrombomodulin (TM), also called CD141, is a type I membrane receptor that is specific to endothelial cells. TM has a cysteine-rich extracellular domain with six EGF-like regions. TM forms a complex with Thrombin, which activates Protein C to generate activated Protein C (APC), an anticoagulant enzyme. APC together with Protein S inhibits coagulation by inactivating Factors Va and VIIIa. Deletion of the TM gene results in embryonic lethality in mice.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: THBD (human) mapping to 20p11.21.

**SOURCE**

TM (D-3) is a mouse monoclonal antibody raised against amino acids 22-321 of TM of human origin.

**PRODUCT**

Each vial contains 200 µg IgG2a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

TM (D-3) is available conjugated to agarose (sc-13164 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-13164 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-13164 PE), fluorescein (sc-13164 FITC), Alexa Fluor® 488 (sc-13164 AF488), Alexa Fluor® 546 (sc-13164 AF546), Alexa Fluor® 594 (sc-13164 AF594) or Alexa Fluor® 647 (sc-13164 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-13164 AF680) or Alexa Fluor® 790 (sc-13164 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

In addition, TM (D-3) is available conjugated to Alexa Fluor® 405 (sc-13164 AF405), 100 µg/2 ml, for IF, IHC(P) and FCM.

**APPLICATIONS**

TM (D-3) is recommended for detection of thrombomodulin of human origin by Western Blotting (starting dilution 1:500, dilution range 1:500-1:1,000), immunoprecipitation [1:2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry [including paraffin-embedded sections] (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10⁶ cells).


**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.