**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; Thbd (mouse) mapping to 2G3.

**SOURCE**

TM (M-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of TM of mouse origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-7097 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**STORAGE**

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

**APPLICATIONS**

TM (M-17) is recommended for detection of thrombomodulin of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30:1:3000).

Suitable for use as control antibody for TM siRNA (h): sc-36686, TM siRNA (m): sc-36687, TM shRNA Plasmid (h): sc-36686-Sh, TM shRNA Plasmid (m): sc-36687-Sh, TM shRNA (h) Lentiviral Particles: sc-36686-V and TM shRNA (m) Lentiviral Particles: sc-36687-V.

Molecular Weight of TM: 105 kDa.

Positive Controls: A549 cell lysate: sc-2413, TM (h): 293T Lysate: sc-115666 or TM (m): 293T Lysate: sc-127663.

**RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2033 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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

Try TM (D-3): sc-13164 or TM (H-11): sc-271804, our highly recommended monoclonal alternatives to TM (M-17). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see TM (D-3): sc-13164.