**BACKGROUND**

THSD7A (thrombospondin type-1 domain-containing protein 7A) is a 1,657 amino acid single-pass type I membrane protein that contains 15 TSP type-1 domains. THSD7A is found almost exclusively in endothelial cells from placenta and umbilical cord. While it may be involved in cytoskeletal organization, THSD7A is thought to interact with integrin αV/β3 and paxillin to inhibit endothelial cell migration and tube formation. The gene that encodes THSD7A maps to human chromosome 7p21.3. Chromosome 7 has been linked to osteogenesis imperfecta, Pendred syndrome, lissencephaly, citrullinemia and Shwachman-Diamond syndrome.

**REFERENCES**


**SOURCE**

THSD7A (I-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of THSD7A of human 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-163453 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

THSD7A (I-16) is recommended for detection of THSD7A of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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); non cross-reactive with THSD7B. THSD7A (I-16) is also recommended for detection of THSD7A in additional species, including equine, canine and bovine.


Molecular Weight of THSD7A: 185 kDa.

**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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:50-1:500) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:50-1:500) with UltraCruz™ Mounting Medium: sc-24941.

**STORAGE**

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

**RESEARCH USE**

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

**PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.