

Thrombospondin 4 (C-20)-R: sc-7657-R

BACKGROUND

The Thrombospondin proteins (TSP 1–4) compose a family of glycoproteins that are involved in cell-to-cell and cell-to-matrix signaling. These extracellular, cell-surface proteins form complexes of both homo- and hetero-multimers. Thrombospondins play a role in development, aggregation of platelets, adhesion and migration of cells and progression of cells through the growth cycle. Thrombospondin 1 is released from platelets in response to Thrombin stimulation and is a transient component of the extracellular matrix of developing and repairing tissues. Thrombospondin 2 shares a high degree of homology with Thrombospondin 1, and is thought to have overlapping but unique functions. Thrombospondin 3 is a developmentally regulated heparin binding protein. Thrombospondin 4 is neuronally expressed and stimulates neurite outgrowth.

CHROMOSOMAL LOCATION

Genetic locus: THBS4 (human) mapping to 5q14.1; Thbs4 (mouse) mapping to 13 C3.

SOURCE

Thrombospondin 4 (C-20)-R is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the C-terminus of Thrombospondin 4 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-7657 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

Thrombospondin 4 (C-20)-R is recommended for detection of Thrombospondin 4 of mouse, rat, human and zebrafish 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).

Thrombospondin 4 (C-20)-R is also recommended for detection of Thrombospondin 4 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Thrombospondin 4 siRNA (h): sc-37171, Thrombospondin 4 siRNA (m): sc-43194, Thrombospondin 4 shRNA Plasmid (h): sc-37171-SH, Thrombospondin 4 shRNA Plasmid (m): sc-43194-SH, Thrombospondin 4 shRNA (h) Lentiviral Particles: sc-37171-V and Thrombospondin 4 shRNA (m) Lentiviral Particles: sc-43194-V.

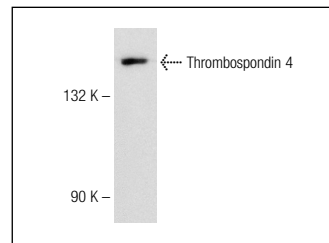
Molecular Weight of Thrombospondin 4: 135 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Thrombospondin 4 (C-20)-R: sc-7657-R. Western blot analysis of Thrombospondin 4 expression in A-431 whole cell lysate.

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.


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Try **Thrombospondin 4 (F-7): sc-390734** or **Thrombospondin 4 (G-10): sc-28293**, our highly recommended monoclonal alternatives to Thrombospondin 4 (C-20).