SANTA CRUZ BIOTECHNOLOGY, INC.

Thrombospondin 3 (H-150): sc-20647

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The Thrombospondin proteins (TSP 1-5) 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: THBS3 (human) mapping to 1q22; Thbs3 (mouse) mapping to 3 F1.

SOURCE

Thrombospondin 3 (H-150) is a rabbit polyclonal antibody raised against amino acids 131-280 mapping near the N-terminus of Thrombospondin 3 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.

STORAGE

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

APPLICATIONS

Thrombospondin 3 (H-150) is recommended for detection of Thrombospondin 3 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).

Thrombospondin 3 (H-150) is also recommended for detection of Thrombospondin 3 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Thrombospondin 3 siRNA (h): sc-43192, Thrombospondin 3 siRNA (m): sc-43193, Thrombospondin 3 shRNA Plasmid (h): sc-43192-SH, Thrombospondin 3 shRNA Plasmid (m): sc-43193-SH, Thrombospondin 3 shRNA (h) Lentiviral Particles: sc-43192-V and Thrombospondin 3 shRNA (m) Lentiviral Particles: sc-43193-V.

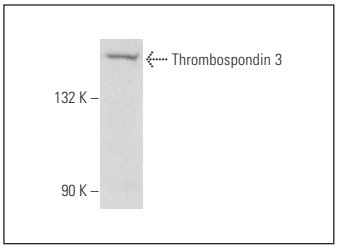
Molecular Weight of Thrombospondin 3: 160 kDa.

Positive Controls: mouse kidney extract: sc-2255 or mouse pituitary gland extract: sc-364246.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/ 2.0 ml). 3) 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 3 (H-150): sc-20647. Western blot analysis of Thrombospondin 3 expression in mouse pituitary tissue extract.

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.