SANTA CRUZ BIOTECHNOLOGY, INC.

ADAMTS-16 (P-20): sc-67438

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

ADAMTS (a disintegrin and metalloproteinase domain with Thrombospondin type-1 modules) is a family of zinc-dependent proteases that are implicated in a variety of normal and pathological conditions, including arthritis and cancer. ADAMTS protein family members contain an amino-terminal pro-peptide domain, a metalloproteinase domain, a disintegrin-like domain and a carboxy-terminus that contains a varying number of Thrombospondin type-1 (TSP-1) motifs. Structurally, ADAMTS-16 most closely resembles ADAMTS-18. ADAMTS-16 is expressed predominantly in fetal lung and kidney tissues, as well as in adult brain tissue. ADAMTS-16 may play a role in cartilage aggrecan loss in osteoarthritis (OA), a disease of the joints. This role is suggested by a significant upregulation of ADAMTS-16 in OA synovium and cartilage.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ADAMTS16 (human) mapping to 5p15.32; Adamts16 (mouse) mapping to 13 C1.

SOURCE

ADAMTS-16 (P-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ADAMTS-16 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-67438 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ADAMTS-16 (P-20) is recommended for detection of ADAMTS-16 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).

ADAMTS-16 (P-20) is also recommended for detection of ADAMTS-16 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ADAMTS-16 siRNA (h): sc-61952, ADAMTS-16 siRNA (m): sc-61953, ADAMTS-16 shRNA Plasmid (h): sc-61952-SH, ADAMTS-16 shRNA Plasmid (m): sc-61953-SH, ADAMTS-16 shRNA (h) Lentiviral Particles: sc-61952-V and ADAMTS-16 shRNA (m) Lentiviral Particles: sc-61953-V.

Molecular Weight of ADAMTS-16: 136 kDa.

Positive Controls: Mouse brain extract: sc-2253.

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: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) 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.