SANTA CRUZ BIOTECHNOLOGY, INC.

ADAMTS-3 (P-18): sc-21486

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 propeptide domain, a metalloproteinase domain, a disintegrin-like domain and a carboxy-terminus that contains a varying number of thrombospondin type 1 (TSP-1) motifs. ADAMTS2 and ADAMTS3 are the only two members of the ADAMTS family to have three carboxy-terminal TS domains. ADAMTS genes are primarily expressed in fetal tissues, including the lung, kidney and liver. The human ADAMTS3 gene maps to chromosome 4q13.3 and encodes a protein that catalyzes the excision of the N-propeptide of type II procollagens The ratio of ADAMTS3 to ADAMTS2 mRNA in human cartilage is approximately 5:1.

CHROMOSOMAL LOCATION

Genetic locus: ADAMTS3 (human) mapping to 4q13.3; Adamts3 (mouse) mapping to 5 E1.

SOURCE

ADAMTS-3 (P-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of ADAMTS-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.

Blocking peptide available for competition studies, sc-21486 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ADAMTS-3 (P-18) is recommended for detection of precursor and mature forms of ADAMTS-3 of mouse 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).

ADAMTS-3 (P-18) is also recommended for detection of precursor and mature forms of ADAMTS-3 in additional species, including equine and bovine.

Suitable for use as control antibody for ADAMTS-3 siRNA (h): sc-41427, ADAMTS-3 siRNA (m): sc-140866, ADAMTS-3 shRNA Plasmid (h): sc-41427-SH, ADAMTS-3 shRNA Plasmid (m): sc-140866-SH, ADAMTS-3 shRNA (h) Lentiviral Particles: sc-41427-V and ADAMTS-3 shRNA (m) Lentiviral Particles: sc-140866-V.

Molecular Weight of ADAMTS-3 precursor: 136 kDa.

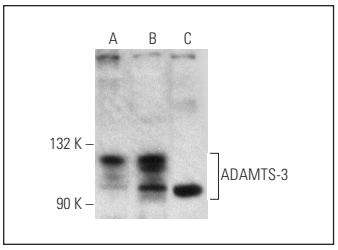
Molecular Weight of mature ADAMTS-3: 108 kDa.

Positive Controls: ADAMTS-3 (m): 293 Lysate: sc-178255, A-431 whole cell lysate: sc-2201 or A2058 whole cell lysate: sc-364178.

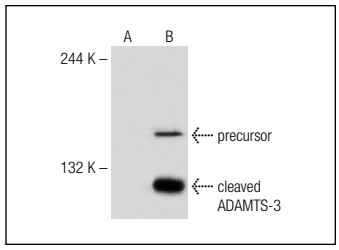
RECOMMENDED SECONDARY REAGENTS

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-2003 (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



ADAMTS-3 (P-18): sc-21486. Western blot analysis of ADAMTS-3 expression in A-431 (**A**) and A2058 (**B**) whole cell lysates and mouse cerebellum tissue extract (**C**).



ADAMTS-3 (P-18): sc-21486. Western blot analysis of ADAMTS-3 expression in non-transfected: sc-110760 (**A**) and mouse ADAMTS-3 transfected: sc-178255 (**B**) 293 whole cell lysates.

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.