ADAMTS-20 (L-15): sc-167049



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 N-terminal propeptide domain, a metalloproteinase domain, a disintegrin-like domain and a C-terminus that contains a varying number of thrombospondin type-1 (TSP-1) motifs. ADAMTS genes are primarily expressed in fetal tissues, including lung, kidney and liver. ADAMTS-20 (ADAM metallopeptidase with thrombospondin type 1 motif, 20), also known as GON-1, is a 1,910 amino acid protein that exists as 2 alternatively spliced isoforms. Encoded by a gene that maps to human chromosome 12q12, ADAMTS-20 contains 15 TSP-1 motifs and binds one zinc ion per subunit. Very sparingly expressed, ADAMTS-20 is detected at low levels in testis, prostate, ovary, heart, placenta, lung and pancreas. Conversely, ADAMTS-20 is overexpressed in several brain, colon and breast carcinomas. ADAMTS-20 may play a role in tissue-remodeling processes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ADAMTS20 (human) mapping to 12g12.

STORAGE

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

SOURCE

ADAMTS-20 (L-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ADAMTS-20 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-167049 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ADAMTS-20 (L-15) is recommended for detection of ADAMTS-20 of 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 other ADAMTS family members.

Suitable for use as control antibody for ADAMTS-20 siRNA (h): sc-95991, ADAMTS-20 shRNA Plasmid (h): sc-95991-SH and ADAMTS-20 shRNA (h) Lentiviral Particles: sc-95991-V.

Molecular Weight of ADAMTS-20: 215 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: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.

Santa Cruz Biotechnology, Inc. 1.800.457.3801 831.457.3800 fax 831.457.3801 **Europe** +00800 4573 8000 49 6221 4503 0 **www.scbt.com**