

ADAMTS-14 (V-17): sc-67436

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. ADAMTS-14 has a structure that is characteristic of its family and includes four Thrombospondin modules. ADAMTS-14 is most predominantly found in collagen-rich tissue, but can also be found at significant levels in other tissues, such as lung and kidney. ADAMTS-14 may play a major role as a collagen biosynthetic enzyme.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ADAMTS14 (human) mapping to 10q22.1; Adamts14 (mouse) mapping to 10 B4.

SOURCE

ADAMTS-14 (V-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ADAMTS-14 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-67436 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ADAMTS-14 (V-17) is recommended for detection of ADAMTS-14 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).

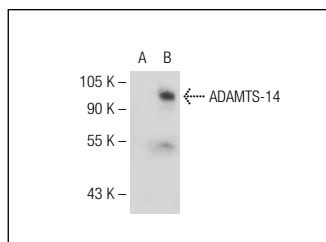
ADAMTS-14 (V-17) is also recommended for detection of ADAMTS-14 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ADAMTS-14 siRNA (h): sc-61950, ADAMTS-14 siRNA (m): sc-61951, ADAMTS-14 shRNA Plasmid (h): sc-61950-SH, ADAMTS-14 shRNA Plasmid (m): sc-61951-SH, ADAMTS-14 shRNA (h) Lentiviral Particles: sc-61950-V and ADAMTS-14 shRNA (m) Lentiviral Particles: sc-61951-V.

Molecular Weight of ADAMTS-14: 134 kDa.

Positive Controls: ADAMTS-14 (h): 293T Lysate: sc-127939.

DATA



ADAMTS-14 (V-17): sc-67436. Western blot analysis of ADAMTS-14 expression in non-transfected: sc-117752 (A) and human ADAMTS-14 transfected: sc-127939 (B) 293T 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.



Try **ADAMTS-14 (G-8): sc-373773**, our highly recommended monoclonal alternative to ADAMTS-14 (V-17).