

# ADAMTS-9 (C-19): sc-21502

## 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. ADAMTS genes are primarily expressed in fetal tissues, including the lung, kidney and liver. The human ADAMTS9 gene maps to chromosome 3p14.1 and encodes a deduced 1,1471 amino acid protein that is expressed in ovary, pancreas, heart, lung, placenta, adult kidney and fetal tissues. Human chromosome 3p14.1 is a region that is known to contain deletions and rearrangements in renal cell carcinomas, breast cancers, uterine cervical carcinomas and vulvar carcinomas.

## REFERENCES

1. Tang, B.L. and Hong, W. 1999. ADAMTS: a novel family of proteases with an ADAM protease domain and thrombospondin 1 repeats. *FEBS Lett.* 445: 223-225.
2. Clark, M.E., Kelner, G.S., Turbeville, L.A., Boyer, A., Arden, K.C. and Maki, R.A. 2000. ADAMTS9, a novel member of the ADAM-TS/metalloproteinase gene family. *Genomics* 67: 343-350.
3. Online Mendelian Inheritance in Man, OMIM<sup>™</sup>. 2000. Johns Hopkins University, Baltimore, MD. MIM Number: 605175. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
4. Tang, B.L. 2001. ADAMTS: a novel family of extracellular matrix proteases. *Int. J. Biochem. Cell Biol.* 33: 33-44.
5. Cal, S., Obaya, A.J., Llamazares, M., Garabaya, C., Quesada, V. and Lopez-Otin, C. 2002. Cloning, expression analysis, and structural characterization of seven novel human ADAMTSs, a family of metalloproteinases with disintegrin and thrombospondin-1 domains. *Gene* 283: 49-62.

## CHROMOSOMAL LOCATION

Genetic locus: ADAMTS9 (human) mapping to 3p14.1; Adamts9 (mouse) mapping to 6 D1.

## SOURCE

ADAMTS-9 (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ADAMTS-9 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-21502 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## APPLICATIONS

ADAMTS-9 (C-19) is recommended for detection of ADAMTS-9 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), immunohistochemistry (including paraffin-embedded sections) (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-9 (C-19) is also recommended for detection of ADAMTS-9 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for ADAMTS-9 siRNA (h): sc-45817, ADAMTS-9 siRNA (m): sc-155863, ADAMTS-9 siRNA (r): sc-270181, ADAMTS-9 shRNA Plasmid (h): sc-45817-SH, ADAMTS-9 shRNA Plasmid (m): sc-155863-SH, ADAMTS-9 shRNA Plasmid (r): sc-270181-SH, ADAMTS-9 shRNA (h) Lentiviral Particles: sc-45817-V, ADAMTS-9 shRNA (m) Lentiviral Particles: sc-155863-V and ADAMTS-9 shRNA (r) Lentiviral Particles: sc-270181-V.

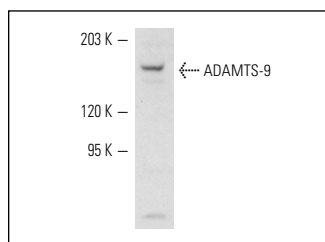
Molecular Weight of ADAMTS-9: 180/250 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or F9 cell lysate: sc-2245.

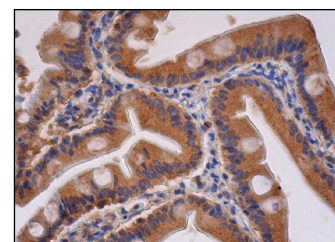
## RECOMMENDED SECONDARY REAGENTS

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<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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<sup>™</sup> Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz<sup>™</sup>: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

## DATA



ADAMTS-9 (C-19): sc-21502. Western blot analysis of ADAMTS-9 expression in F9 whole cell lysate.



ADAMTS-9 (C-19): sc-21502. Immunoperoxidase staining of formalin fixed, paraffin-embedded human duodenum tissue showing cytoplasmic staining of glandular cells.

## STORAGE

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