

# ADAMTS-8 (Q-14): sc-21498

## 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-8, also designated METH-2, METH-8 or FLJ41712, along with ADAMTS-1 (METH-1, C3-C5), represent a new family of proteins with metalloproteinase, disintegrin and thrombospondin domains. The spacer region and the thrombospondin type I motifs in the carboxy-terminus of ADAMTS-8 are important for anchoring the protein to the extracellular matrix. ADAMTS-1 and ADAMTS-8 are both secreted and proteolytically processed proteins. ADAMTS-8 is highly expressed in adult and fetal lung tissue while detected at lower levels in heart, placenta, stomach, brain and kidney tissue.

## REFERENCES

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3. Vazquez, F., Hastings, G., Ortega, M.A., Lane, T.F., Oikemus, S., Lombardo, M. and Lruela-Arispe, M.L. 1999. METH-1, a human ortholog of ADAMTS-1, and METH-2 are members of a new family of proteins with angio-inhibitory activity. *J. Biol. Chem.* 274: 23349-23357.
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## CHROMOSOMAL LOCATION

Genetic locus: ADAMTS8 (human) mapping to 11q24.3; Adamts8 (mouse) mapping to 9 A4.

## SOURCE

ADAMTS-8 (Q-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of ADAMTS-8 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-21498 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

ADAMTS-8 (Q-14) is recommended for detection of ADAMTS-8 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-8 (Q-14) is also recommended for detection of ADAMTS-8 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ADAMTS-8 siRNA (h): sc-43603, ADAMTS-8 siRNA (m): sc-45834, ADAMTS-8 shRNA Plasmid (h): sc-43603-SH, ADAMTS-8 shRNA Plasmid (m): sc-45834-SH, ADAMTS-8 shRNA (h) Lentiviral Particles: sc-43603-V and ADAMTS-8 shRNA (m) Lentiviral Particles: sc-45834-V.

Molecular Weight of ADAMTS-8: 98 kDa.

Positive Controls: rat brain extract: sc-2392.

## 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.

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Try **ADAMTS-8 (G-4): sc-514717**, our highly recommended monoclonal alternative to ADAMTS-8 (Q-14).