ADAMTS-8 (C-12): sc-5469



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. 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 metalloprotease, 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

- Kuno, K., Kanada, N., Nakashima, E., Fujiki, F., Ichimura, F. and Matsushima, K. 1997. Molecular cloning of a gene encoding a new type of metalloproteinase-disintegrin family protein with Thrombospondin motifs as an inflammation associated gene. J. Biol. Chem. 272: 556-562.
- Kuno, K., Iizasa, H., Ohno, S. and Matsushima, K. 1997. The exon/intron organization and chromosomal mapping of the mouse ADAMTS-1 gene encoding an ADAM family protein with TSP motifs. Genomics 46: 466-471.
- Vazquez, F., Hastings, G., Ortega, M.A., Lane, T.F., Oikemus, S., Lombardo, M. and Iruela-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.
- Tortorella, M.D., Burn, T.C., Pratta, M.A., Abbaszade, I., Hollis, J. M., Liu, R., Rosenfeld, S.A., Copeland, R.A., Decicco, C.P., Wynn, R., Rockwell, A., Yang, F., et al. 1999. Purification and cloning of aggrecanase-1: a member of the ADAMTS family of proteins. Science 284: 1664-1666.

CHROMOSOMAL LOCATION

Genetic locus: ADAMTS8 (human) mapping to 11q24.3.

SOURCE

ADAMTS-8 (C-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of ADAMTS-8 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-5469 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

ADAMTS-8 (C-12) is recommended for detection of ADAMTS-8 of 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-8 (C-12) is also recommended for detection of ADAMTS-8 in additional species, including equine.

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

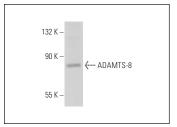
Molecular Weight of ADAMTS-8: 98 kDa.

Positive Controls: HEK293 whole cell lysate: sc-45136.

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-8 (C-12): sc-5469. Western blot analysis of ADAMTS-8 expression in HEK293 whole cell lysate.

RESEARCH USE

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



Try **ADAMTS-8 (G-4):** sc-514717, our highly recommended monoclonal alternative to ADAMTS-8 (C-12).

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**