

ADAMTS-19 (Q-20): sc-21512

BACKGROUND

ADAMTS (a disintegrin and metalloproteinase domain with thrombospondin type-1 modules) is a family of zinc-dependent protease that are implicated in a variety of normal and pathological conditions, including arthritis and cancer. Embryogenesis, morphological growth changes, inflammation, tumor invasion and metastasis involve the breakdown and remodeling of the extracellular matrix. This degradation is due to the family of enzymes known as the matrix metalloproteinases (MMPs), which are related to ADAMTS subtypes. 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 ADAMTS10 gene maps to chromosome 19p13.3. The human ADAMTS19 gene maps to chromosome 5q23.3.

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. Tang, B.L. 2001. ADAMTS: a novel family of extracellular matrix proteases. *Int. J. Biochem. Cell Biol.* 33: 33-44.
3. 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.
4. LocusLink Report (LocusID: 11095). <http://www.ncbi.nlm.nih.gov/LocusLink/>

CHROMOSOMAL LOCATION

Genetic locus: ADAMTS19 (human) mapping to 5q23.3; Adamts19 (mouse) mapping to 18 D3.

SOURCE

ADAMTS-19 (Q-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of ADAMTS-19 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-21512 P, (100 µg 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.

RESEARCH USE

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

APPLICATIONS

ADAMTS-19 (Q-20) is recommended for detection of ADAMTS-19 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), 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-19 (Q-20) is also recommended for detection of ADAMTS-19 in additional species, including bovine.

Suitable for use as control antibody for ADAMTS-19 siRNA (h): sc-61866, ADAMTS-19 siRNA (m): sc-61867, ADAMTS-19 shRNA Plasmid (h): sc-61866-SH, ADAMTS-19 shRNA Plasmid (m): sc-61867-SH, ADAMTS-19 shRNA (h) Lentiviral Particles: sc-61866-V and ADAMTS-19 shRNA (m) Lentiviral Particles: sc-61867-V.

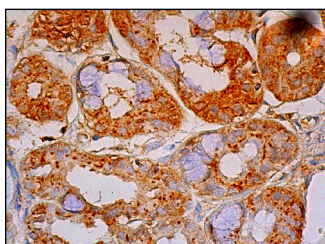
Molecular Weight of ADAMTS-19: 134 kDa.

Positive Controls: PC-3 cell lysate: sc-2220, LNCaP cell lysate: sc-2231 or SW480 cell lysate: sc-2219.

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. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



ADAMTS-19 (Q-20): sc-21512. Immunoperoxidase staining of formalin fixed, paraffin-embedded human salivary gland tissue showing cytoplasmic staining of glandular cells.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.