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 proped tide 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-L4 (ADAMTS-like protein 4), also known as TSRC1 (thrombospondin repeat-containing protein 1), is a 1,074 amino acid secreted protein. Known to interact with cathepsin B, ADAMTS-L4 functions as a positive regulator of apoptosis. Mutations in the gene that encodes ADAMTS-L4 are a cause of autosomal recessive isolated ectopia lentis (EL), a rare condition in which defective zonule formation results in partial or complete displacement of the lens from its space. ADAMTS-L4 is expressed in spleen, liver, skeletal muscle, lung, colon, testis, placenta heart and leukocyte.

APPLICATIONS

ADAMTS-L4 (H-9) is recommended for detection of ADAMTS-L4 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).


Molecular Weight of ADAMTS-L4 isoforms: 116/95 kDa.
Positive Controls: HeLa whole cell lysate: sc-2200, AMJ2-C8 whole cell lysate: sc-364366 or rat liver extract: sc-2395.

RECOMMENDED SUPPORT REAGENTS
To ensure optimal results, the following support reagents are recommended:

DATA

ADAMTS-L4 (H-9): sc-390187. Western blot analysis of ADAMTS-L4 expression in AMJ2-C8 (A) and HeLa (B) whole cell lysates and rat liver tissue extract (C).

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 for detailed protocols and support products.