ADAMTS-L4 (H-9): sc-390187

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 motif 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.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: ADAMTS4 (human) mapping to 1q21.3; ADAMTS4 (mouse) mapping to 3F2.1.

SOURCE
ADAMTS-L4 (H-9) is a mouse monoclonal antibody raised against amino acids 586-835 mapping within an internal region of ADAMTS-L4 of human origin.

PRODUCT
Each vial contains 200 µg IgG, kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

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).

RECOMMENDED SUPPORT REAGENTS
To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG BP-HRP: sc-516102 or m-IgG BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgG BP-FITC: sc-516140 or m-IgG BP-PE: sc-516141 (dilution range 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).

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.