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 metalloprotease domain, a disintegrin-like domain and a carboxy-terminus that contains a varying number of Thrombospondin type 1 (TSP-I) motifs. ADAMTS-L4 (ADAMTS-like protein 4), also known as TSRC1 (thrombospondin-repeating 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

2. Buchner, D.A. and Meisler, M.H. 2003. TSRC1, a widely expressed gene type 1 modules) is a family of zinc-dependent proteases that are implicated in placemen tof the lens from itsspace. ADAMTS-L4 is expressed in spleen, liver, skeletal muscle, lung, colon, testis, placenta, heart and leukocyte.

CHROMOSOMAL LOCATION

Genetic locus: ADAMTS-L4 (human) mapping to 1q21.3; ADAMTS-L4 (mouse) mapping to 3 F2.1.

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 κ, kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

ADAMTS-L4 (H-9) is available conjugated to agarose (sc-390187 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-390187 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-390187 PE), fluorescein (sc-390187 FITC), Alexa Fluor® 488 (sc-390187 AF488), Alexa Fluor® 546 (sc-390187 AF546), Alexa Fluor® 594 (sc-390187 AF594) or Alexa Fluor® B47 (sc-390187 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-390187 AF680) or Alexa Fluor® 790 (sc-390187 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

ADAMTS-L4 is recomended 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 [0.2 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). ADAMTS-L4 (H-9): sc-390187. Immunofluorescence staining of methyl-hexyl HeLa cells showing membrane and cytoplasmic localization.

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 website at www.scbt.com for detailed protocols and support products.