

# ADAMTS-15 (5F3): sc-517041

## 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 genes are primarily expressed in fetal tissues, including the lung, kidney and liver. ADAMTS-15 is a weak aggrecanase expressed in the fetal kidney and liver. It cleaves the interglobular domain of aggrecan, separating the G<sub>1</sub> and G<sub>2</sub> domains. In human breast carcinoma, low expression levels of ADAMTS-15 together with high expression levels of ADAMTS-8 is associated with a greater risk for recurrence and death.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: ADAMTS15 (human) mapping to 11q24.3.

## SOURCE

ADAMTS-15 (5F3) is a mouse monoclonal antibody raised against amino acids 863-950 representing partial length ADAMTS-15 of human origin.

## PRODUCT

Each vial contains 100  $\mu$ g IgG<sub>2a</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

ADAMTS-15 (5F3) is recommended for detection of ADAMTS-15 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

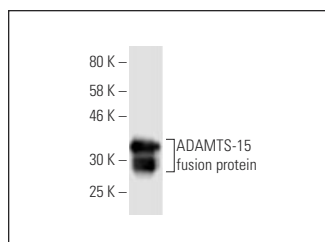
Suitable for use as control antibody for ADAMTS-15 siRNA (h): sc-72443, ADAMTS-15 shRNA Plasmid (h): sc-72443-SH and ADAMTS-15 shRNA (h) Lentiviral Particles: sc-72443-V.

Molecular Weight of ADAMTS-15: 103 kDa.

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), 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).

## DATA



ADAMTS-15 (5F3): sc-517041. Western blot analysis of human recombinant ADAMTS-15 fusion protein.

## 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](http://www.scbt.com) for detailed protocols and support products.