# GP-39 (h): 293 Lysate: sc-110933



The Power to Question

## **BACKGROUND**

Human cartilage glycoprotein 39 (GP-39), also known as YKL-40, is a glycoprotein secreted by articular chondrocytes, synoviocytes and macrophages. Serum and synovial fluid GP-39 levels are elevated in inflammatory diseases and correlate with the degree of joint destruction in rheumatoid arthritis. GP-39 is expressed in articular chondrocytes and synovial cells, as well as in liver, but is undetectable in muscle tissues, lung, pancreas, mononuclear cells and fibroblasts. GP-39 is a candidate autoantigen in rheumatoid arthritis and is important in the capacity of cells to respond to and cope with changes in their environment.

## **REFERENCES**

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#### **CHROMOSOMAL LOCATION**

Genetic locus: CHI3L1 (human) mapping to 1q32.1.

## **PRODUCT**

GP-39 (h): 293 Lysate represents a lysate of human GP-39 transfected 293 cells and is provided as  $100 \mu g$  protein in 200  $\mu l$  SDS-PAGE buffer.

## **STORAGE**

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## **APPLICATIONS**

GP-39 (h): 293 Lysate is suitable as a Western Blotting positive control for human reactive GP-39 antibodies. Recommended use: 10-20 µl per lane.

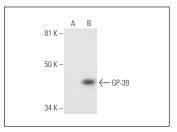
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

GP-39 (E-10): sc-393476 is recommended as a positive control antibody for Western Blot analysis of enhanced human GP-39 expression in GP-39 transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

## **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG $\kappa$  BP-HRP: sc-516102 or m-lgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

#### DATA



GP-39 (E-10): sc-393476. Western blot analysis of GP-39 expression in non-transfected: sc-110760 (**A**) and human GP-39 transfected: sc-110933 (**B**) 293 whole cell lysates.

#### **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.

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