

# Fibulin-2 (H-5): sc-271843

## BACKGROUND

Fibulin-1 and Fibulin-2 associate with Fibronectin and other extracellular matrix proteins. In bone marrow, Fibulin-1 and Fibulin-2 bind to Fibronectin in the adherent layer. Fibulin-1 expression is stimulated by estrogen in ovarian cancer cell lines and has been suggested as both an agent of metastasis in ovarian cancer cells and as an indicator for predicting cancer risk or aggressiveness in ovarian carcinomas. The mobility of cancer cells may be inhibited with increasing exposure to Fibulin-1. Fibulin-2 binds to the lectin domains of extracellular matrix proteins aggrecan, versican and brevican. Fibulin-2 is abundantly expressed in heart, placenta and ovarian tissue, where it localizes to basement membranes and connective tissue compartments. In mice, differential Fibulin-2 gene expression correlates with the early phase of diabetic kidneys and glomerulosclerosis. The gene encoding human Fibulin-2 maps to chromosome 3p25.1.

## REFERENCES

1. Argraves, W.S., et al. 1989. Fibulin, a novel protein that interacts with the Fibronectin receptor  $\beta$ -subunit cytoplasmic domain. *Cell* 58: 623-629.
2. Pan, T.C., et al. 1993. Structure and expression of Fibulin-2, a novel extracellular matrix protein with multiple EGF-like repeats and consensus motifs for calcium binding. *J. Cell Biol.* 123: 1269-1277.
3. Zhang, R.Z., et al. 1994. Fibulin-2 (Fbln-2): human cDNA sequence, mRNA expression, and mapping of the gene on human and mouse chromosomes. *Genomics* 22: 425-430.

## CHROMOSOMAL LOCATION

Genetic locus: FBLN2 (human) mapping to 3p25.1; Fbln2 (mouse) mapping to 6 D1.

## SOURCE

Fibulin-2 (H-5) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 61-95 within an internal region of Fibulin-2 of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Fibulin-2 (H-5) is available conjugated to agarose (sc-271843 AC), 500  $\mu$ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-271843 HRP), 200  $\mu$ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-271843 PE), fluorescein (sc-271843 FITC), Alexa Fluor<sup>®</sup> 488 (sc-271843 AF488), Alexa Fluor<sup>®</sup> 546 (sc-271843 AF546), Alexa Fluor<sup>®</sup> 594 (sc-271843 AF594) or Alexa Fluor<sup>®</sup> 647 (sc-271843 AF647), 200  $\mu$ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor<sup>®</sup> 680 (sc-271843 AF680) or Alexa Fluor<sup>®</sup> 790 (sc-271843 AF790), 200  $\mu$ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-271843 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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## APPLICATIONS

Fibulin-2 (H-5) is recommended for detection of precursor and mature Fibulin-2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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).

Fibulin-2 (H-5) is also recommended for detection of precursor and mature Fibulin-2 in additional species, including canine and bovine.

Suitable for use as control antibody for Fibulin-2 siRNA (h): sc-43119, Fibulin-2 siRNA (m): sc-43120, Fibulin-2 shRNA Plasmid (h): sc-43119-SH, Fibulin-2 shRNA Plasmid (m): sc-43120-SH, Fibulin-2 shRNA (h) Lentiviral Particles: sc-43119-V and Fibulin-2 shRNA (m) Lentiviral Particles: sc-43120-V.

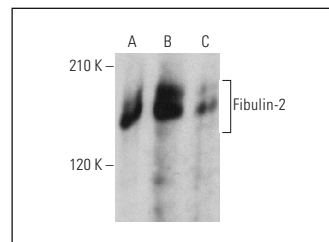
Molecular Weight of Fibulin-2: 195 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, JEG-3 whole cell lysate: sc-364255 or CCD-1064Sk cell lysate: sc-2263.

## 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<sup>™</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> 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 $\kappa$  BP-FITC: sc-516140 or m-IgG $\kappa$  BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz<sup>®</sup> Mounting Medium: sc-24941 or UltraCruz<sup>®</sup> Hard-set Mounting Medium: sc-359850.

## DATA



Fibulin-2 (H-5): sc-271843. Western blot analysis of Fibulin-2 expression in CCD-1064Sk (A), JEG-3 (B) and HeLa (C) whole cell lysates.

## 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.