Fibulin-3 promotes osteosarcoma invasion and metastasis by inducing epithelial to mesenchymal transition and activating the Wnt/β-catenin signaling pathway

**Running title:** The role of fibulin-3 in human osteosarcoma invasion and metastasis

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Supplementary information

Western blot of figure 4

EFEMP1  55kDa

GAPDH  38kDa

Western blot of figure 5

EFEMP1  55kDa

GAPDH  38kDa

EFEMP 1

Control

Non-infected

EFEMP 1

Control

Non-infected

EFEMP 1

Control

Non-infected

EFEMP 1

Control

Non-infected
Western blot of figure 9

| Protein | HOS-1 | HOS-29 |
|---------|-------|--------|
| N-cadherin | 130kDa | 130kDa |
| E-cadherin | 120kDa | 120kDa |
| Vimentin | 57kDa | 57kDa |
| GAPDH | 38kDa | 38kDa |
| Slug | 30kDa | 30kDa |
HOS-1

**Snail 29kDa**

![Image of Snail 29kDa](image)

**Twist 21kDa**

![Image of Twist 21kDa](image)

**H3K4me3 17kDa**

![Image of H3K4me3 17kDa](image)

**Total H3 17kDa**

![Image of Total H3 17kDa](image)

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HOS-29

**Snail 29kDa**

![Image of Snail 29kDa](image)

**Twist 21kDa**

![Image of Twist 21kDa](image)

**H3K27me3 17kDa**

![Image of H3K27me3 17kDa](image)

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**Control**

Non-infected

shRNA

pLVX-
Western blot of figure 10

**HOS-1**

- **β-catenin 86kDa**
  - EFEMP1 shRNA
  - Control shRNA
  - Non-infected

- **C-myc 49kDa**
  - EFEMP1 shRNA
  - Control shRNA
  - Non-infected

- **GSK3β-pS9 47kDa**
  - EFEMP1 shRNA
  - Control shRNA
  - Non-infected

- **GSK3β 46kDa**
  - EFEMP1 shRNA
  - Control shRNA
  - Non-infected

- **GAPDH 38kDa**
  - EFEMP1 shRNA
  - Control shRNA
  - Non-infected

- **cyclin D1 34kDa**
  - EFEMP1 shRNA
  - Control shRNA
  - Non-infected

**HOS-29**

- **β-catenin 86kDa**
  - pLVX-EFEMP1 shRNA
  - Control shRNA
  - Non-infected

- **C-myc 49kDa**
  - pLVX-EFEMP1 shRNA
  - Control shRNA
  - Non-infected

- **GSK3β-pS9 47kDa**
  - pLVX-EFEMP1 shRNA
  - Control shRNA
  - Non-infected

- **GSK3β 46kDa**
  - pLVX-EFEMP1 shRNA
  - Control shRNA
  - Non-infected

- **GAPDH 38kDa**
  - pLVX-EFEMP1 shRNA
  - Control shRNA
  - Non-infected

- **cyclin D1 34kDa**
  - pLVX-EFEMP1 shRNA
  - Control shRNA
  - Non-infected
EFEMP1 shRNA-infected HOS-1  
GSK3β  46kDa

pLVX-EFEMP1-infected HOS-29  
GSK3β  46kDa

Control  LiCl (μmol/L)

5 10 20

GAPDH  38kDa

Control  LiCl (μmol/L)

5 10 20

cyclin D1  34kDa

Control  LiCl (μmol/L)

5 10 20