Periostin (F-10): sc-398631

**BACKGROUND**

Periostin (PN), also designated osteoblast-specific factor 2 (OSF-2), is a disul- fide linked protein originally isolated as a osteoblast-specific factor. Periostin is a secreted protein that binds heparin and functions as a ligand for αvβ3 and αvβ5 Integrins. In preosteoblasts, Periostin acts as a cell adhesion molecule and plays a role in osteoblast recruitment, spreading and attachment. Periostin is mainly detected in lower gastrointestinal tract, aorta, stomach, placenta, uterus and breast tissues but is up-regulated in epithelial ovarian tumors and overexpressed in breast cancer. Expression of Periostin is increased by bone morphogenetic protein (BMP2) and transforming growth factor β 1 (TGF β 1). Periostin contains a typical signal sequence, followed by a cysteine-rich domain, a fourfold repeated domain, which shows homology with the insect protein fasciclin, and a C-terminal domain.

**CHROMOSOMAL LOCATION**

Genetic locus: POSTN (human) mapping to 13q13.3; Postn (mouse) mapping to 3 C.

**SOURCE**

Periostin (F-10) is a mouse monoclonal antibody raised against amino acids 537-836 mapping at the C-terminus of Periostin of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Periostin (F-10) is available conjugated to agarose (sc-398631 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-398631 HRP), 200 µg/ml, for WB, (HCP) and ELISA; to either phycoerythrin (sc-398631 PE), fluorescein (sc-398631 FITC), Alexa Fluor® 488 (sc-398631 AF488), Alexa Fluor® 546 (sc-398631 AF546), Alexa Fluor® 594 (sc-398631 AF594) or Alexa Fluor® 647 (sc-398631 AF647), 200 µg/ml, for WB (RGB), IF, HCP and FCM; and to either Alexa Fluor® 680 (sc-398631 AF680) or Alexa Fluor® 790 (sc-398631 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

Periostin (F-10) is recommended for detection of Periostin of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (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 Periostin: 90 kDa.

Positive Controls: human stomach extract: sc-363780.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:


**DATA**


**SELECT PRODUCT CITATIONS**


**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 for detailed protocols and support products.

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