

# Rabbit Monoclonal Antibody to Mouse Periostin, Osteoblast Specific Factor

**Cat. No.** CAB11592RM    **Lot. No.** (See product label)

## SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| <b>Product Overview</b>    | Rabbit Monoclonal Antibody to Mouse Periostin, Osteoblast Specific Factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>             | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>              | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Antigen Description</b> | <p>Mouse periostin ( POSTN ), also known as OSF2 ( osteoblast specific factor 2 ), is a heterofunctional secreted extracellular matrix (ECM) protein comprised of four fasciclin domains that promotes cellular adhesion and movement, as well as collagen fibrillogenesis. Postn is expressed in unique growth centers during embryonic development where it facilitates epithelial-mesenchymal transition (EMT) of select cell populations undergoing reorganization. In the adult, Postn expression is specifically induced in areas of tissue injury or areas with ongoing cellular re-organization. In the adult heart Postn is induced in the ventricles following myocardial infarction, pressure overload stimulation, or generalized cardiomyopathy. Although the detailed function of Postn is still unclear, Postn-integrin interaction is thought to be involved in tumor development. Postn is frequently overexpressed in various types of human cancers, stimulating metastatic growth by promoting cancer cell survival, invasion and angiogenesis, and can be a useful marker to predict the behavior of cancer.</p> |
| <b>Specificity</b>         | Mouse Periostin / POSTN. No cross-reactivity in ELISA with Human POSTN; Human cell lysate (293 cell line)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Immunogen</b>    | Recombinant Mouse Periostin / POSTN Protein (                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Isotype</b>      | Rabbit IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Clone</b>        | A032                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Applications</b> | Western blot; ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Dilution</b>     | Western blot: This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Mouse POSTN in WB. Using a DAB detection system, the detection limit for Mouse POSTN is approximately 2 ng/lane under non-reducing conditions and 5 ng/lane under reducing conditions. Direct ELISA: This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect Mouse POSTN. The detection limit for Mouse POSTN is approximately 0.0195 ng/well. |
| <b>Preparation</b>  | This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Mouse Periostin / POSTN                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Format</b>       | 0.2 µm filtered solution in PBS with 5% trehalose                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Storage</b>      | This antibody can be stored at 2-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.                                                                                              |

## GENE INFORMATION

|                        |                                                                     |
|------------------------|---------------------------------------------------------------------|
| <b>Gene Name</b>       | Postn periostin, osteoblast specific factor [ <i>Mus musculus</i> ] |
| <b>Official Symbol</b> | Postn                                                               |

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| <b>Synonyms</b>       | POSTN; periostin, osteoblast specific factor; periostin; periostin-like factor; osteoblast-specific factor 2; osteoblast specific factor 2 (fasciclin I-like); PN; PLF; Osf2; peri; OSF-2; AI747096; A630052E07Rik; |
| <b>Gene ID</b>        | 50706                                                                                                                                                                                                               |
| <b>mRNA Refseq</b>    | NM_001198765                                                                                                                                                                                                        |
| <b>Protein Refseq</b> | NP_001185694                                                                                                                                                                                                        |
| <b>Function</b>       | heparin binding;                                                                                                                                                                                                    |

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