

## Active Recombinant Full Length Human periostin Protein, His tagged

Cat. No. POSTN-13HFL    Lot. No. (See product label)

### SPECIFICATION

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>             | Recombinant Full Length Human Periostin/OSF-2 Protein with a C-terminal 6-His tag was expressed in Mouse myeloma cell line.                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>                      | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>                       | Mouse myeloma cell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>                | 1-836 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>                  | This gene encodes a secreted extracellular matrix protein that functions in tissue development and regeneration, including wound healing, and ventricular remodeling following myocardial infarction. The encoded protein binds to integrins to support adhesion and migration of epithelial cells. This protein plays a role in cancer stem cell maintenance and metastasis. Mice lacking this gene exhibit cardiac valve disease, and skeletal and dental defects. Alternative splicing results in multiple transcript variants encoding different isoforms. |
| <b>Tag</b>                          | C-6×His                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Molecular Mass</b>               | 91.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>N-terminal Sequence Analysis</b> | Asn22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

 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>Bio-Activity</b>   | Measured by its ability to induce adhesion of ATDC5 mouse chondrogenic cells. Immobilized Recombinant Human Periostin/OSF-2 at 10 µg/mL (100 µL/well) induces > 50% cell adhesion.                                       |
| <b>Endotoxin</b>      | < 1 EU/µg by LAL                                                                                                                                                                                                         |
| <b>Purity</b>         | > 90%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie Blue Staining.                                                                                                             |
| <b>Storage Buffer</b> | Lyophilized from a 0.2 µm filtered solution in Tris-Citrate and NaCl.                                                                                                                                                    |
| <b>Reconstitution</b> | Reconstitute at 100 µg/mL in sterile PBS.                                                                                                                                                                                |
| <b>Shipping</b>       | The product is shipped at ambient temperature.                                                                                                                                                                           |
| <b>Reference</b>      | <ol style="list-style-type: none"> <li>1. Liu, A.Y. et al. (2014) Matrix Biol. 37:150.</li> <li>2. Gillan, L. et al. (2002) Cancer Res. 62:5358.</li> <li>3. Takeshita, S. et al. (1993) Biochem. J. 294:271.</li> </ol> |

## GENE INFORMATION

|                        |                                                                                                                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | POSTN periostin [ Homo sapiens (human) ]                                                                                                                                                |
| <b>Official Symbol</b> | POSTN                                                                                                                                                                                   |
| <b>Synonyms</b>        | POSTN; periostin; PN; OSF2; OSF-2; PDLPOSTN; periostin; osteoblast specific factor 2 (fasciclin I-like); periodontal ligament-specific periostin; periostin, osteoblast specific factor |
| <b>Gene ID</b>         | 10631                                                                                                                                                                                   |

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|----------------|-----------|
| mRNA Refseq    | NM_006475 |
| Protein Refseq | NP_006466 |
| MIM            | 608777    |
| UniProt ID     | Q15063    |

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