

## Recombinant Mouse Postn Protein, 500-630 aa, His-tagged

**Cat. No.** Postn-734M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <b>Product Overview</b> | Recombinant Mouse Postn(Ser500~Leu630) fused with His tag at N-terminal was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>    | 500-630 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <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>Form</b>             | 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | 16.1kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Endotoxin</b>        | <1.0EU per 1g (determined by the LAL method)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>           | > 92%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>   | Positive Control; Immunogen; SDS-PAGE; WB.<br>If bio-activity of the protein is needed, please check active protein.                                                                                                                                                                                                                         |
| <b>Stability</b>      | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                 |
| <b>Reconstitution</b> | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL.<br>Do not vortex.                                                                                                                                                                                                                                         |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                     |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Postn periostin, osteoblast specific factor [ <i>Mus musculus</i> ]                                                                                                                                                 |
| <b>Official Symbol</b> | Postn                                                                                                                                                                                                               |
| <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>UniProt ID</b>      | Q62009                                                                                                                                                                                                              |

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