POSTN Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	POSTN, Recombinant Protein
Full Product Name	Recombinant Human POSTN
Product Gene Name	POSTN recombinant protein
Product Synonym Names	OSF 2; OSF2; Osteoblast specific factor 2; PDLPOSTN; periostin; PN; POSTN; RP11 412K4.1
Host	E Coli
Form/Format	Lyophilized from a 0.2um filtered solution in PBS with 5% trehalose, pH7.4
Purity/Purification	Greater than 70% by SDS-PAGE gel analyses
Preparation and Storage	Store at -20 degree C for 12 months as lyophilized; 2-8 degree C for 1 month under sterile conditions after reconstitution
Molecular Weight	93,314 Da
Sequence Positions	22-220
OMIM	608777
3D Structure	ModBase 3D Structure for Q15063
Species	Human
Tag	N-terminal His-IF2DI Tag
Reconstitution	Centrifuge the vial at 10,000rpm for 1 minute, reconstitute at 200ug/ml in sterile distilled water
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for POSTN recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for POSTN recombinant protein	MBS7613296 is a recombinant protein targeting POSTN. Also known as Recombinant Human POSTN. Host: E Coli.
Other Notes	Small volumes of POSTN recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for POSTN. It may not necessarily be applicable to this product.

NCBI GI #	209862907
NCBI GeneID	10631
NCBI Accession #	NP_006466.2
UniProt Primary Accession #	Q15063
UniProt Secondary Accession #	Q15064; Q29XZ0; Q3KPJ5; Q5VSY5; Q8IZF9; B1ALD8; C0IMJ1; C0IMJ2; C0IMJ4; D2KRH7; F5H628
UniProt Related Accession #	Q15063
GenBank Nucleotide #	NM_006475.2

NCBI Official Full Name	periostin isoform 1
NCBI Official Synonym Full Names	periostin, osteoblast specific factor
NCBI Official Symbol	POSTN
NCBI Official Synonym Symbols	PN; OSF2; OSF-2; PDLPOSTN; periostin
UniProt Protein Name	Periostin
UniProt Synonym Protein Names	Osteoblast-specific factor 2
Protein Family	Periostin
UniProt Gene Name	POSTN
UniProt Synonym Gene Names	OSF2; PN; OSF-2
UniProt Entry Name	POSTN_HUMAN
NCBI Protein Information	periostin; periodontal ligament-specific periostin; osteoblast specific factor 2 (fasciclin I-like)
NCBI Summary for POSTN	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. [provided by RefSeq, Sep 2015]
UniProt Comments for POSTN	POSTN: Binds to heparin. Induces cell attachment and spreading and plays a role in cell adhesion. May play a role in extracellular matrix mineralization. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; Secreted; Cell adhesion; Secreted, signal peptide Chromosomal Location of Human Ortholog: 13q13.3 Cellular Component: extracellular matrix; proteinaceous extracellular matrix; extracellular space; trans-Golgi network Molecular Function: heparin binding; protein binding; cell adhesion molecule binding Biological Process: tissue development; extracellular matrix organization and biogenesis; regulation of Notch signaling pathway; cell adhesion; skeletal development
Research Articles on POSTN	**1.** Periostin plays an important role for proper collagen assembly and homeostasis. During skin aging periostin expression decreases and contributes to the phenotype of aged skin.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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