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Periostin Protein (POSTN) (His tag)





Overview

Quantity:	100 μg
Target:	Periostin (POSTN)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Periostin protein is labelled with His tag.

Product Details

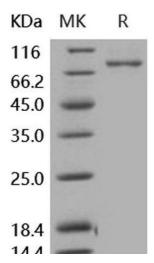
Purpose:	Recombinant Human Periostin/OSF-2 Protein (His Tag)(Active)
Sequence:	Met 1-Gln 781
Characteristics:	A DNA sequence encoding the human POSTN isoform 3 (NP_001129407.1) corresponding to amino acid (Met 1-Gln 781) was expressed with a C-terminal polyhistidine tag.
Purity:	> 97 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to induce adhesion of ATDC5 mouse chondrogenic cells. When cells are added to POSTN-His coated plates (10µg/mL, 100µL/well), approximately >60% will adhere specifically after 30 minutes at 37°C.

Target Details

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Target Details

Alternative Name:	Periostin/OSF-2 (POSTN Products)
Background:	Background: 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.
	Synonym: Osteoblast-specific factor 2,0SF-2,POSTN, Periostin,PDLPOSTN,periostin,PN
Molecular Weight:	86 kDa
NCBI Accession:	NP_001129407
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.