

Periostin Protein, Human (815a.a, HEK293, His)

Cat. No.:	HY-P77818
Synonyms:	Periostin; PN; OSF-2; POSTN; OSF2; Fasciclin I-like; PDLPOSTN; PNRP11-412K4.1; TRIF52
Species:	Human
Source:	HEK293
Accession:	Q15063-1 (N22-Q836)
Gene ID:	10631
Molecular Weight:	93-100 kDa

PROPERTIES

AA Sequence

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NNHYDKILAH
S
WYKKSICGQK
GTLGIVGATT
DNLDSDIRRG
MIIPSMYNNL
VHVIDRVLTQ
LGRDGHFTLF
YHILNTLQCS
IKMVNKKDIV
TFTDLVAQLG
RLLKLILQNH
RTAVCIENSC
LKQDKRFSTF
GMTSEEKEIL
NILKTTQGSK
VVDKLLYPAD
EIPVTVYTTK
VKIEGEPEFR
EITEKETREE
EVTKVTKFIE
VQGSRRRLRE
RIRGRDQGP
N
TTVLYECCPG
TQRYS DASKL
LESNVNVELL
GLFINHYPNG
IGTSIQDFIE
APTNEAFEKL
ESIMGGAVFE
TNGGVIHLID
LASALRPDGE
ILKVKVGLNE
MEKGSKQGRN
LSLLEAADLK
IRDKNALQNI
IFLKEVNDTL
TPVGNDQLLE
IITKVVEPKI
LIKEGETITE
RIITGPEIKY
GGDGHLFEDE
GRSQ
VCALQQILGT
YMRMEGMKGC
REEIEGKGSF
NALHSHMINK
VVTVNCARII
AEDDLSSFRA
PRGVLERIMG
TLEGNTIEIG
QVLI PDSAKQ
YTLLAPVNNA
LYNGQILETI
GAIHIFREII
ELLTQPGDWT
ILYHLTPGVF
LVNELKSKES
ILNKLIKYIQ
KVI EGS LQPI
VIHGEP I I KK
TRISTGGGET
EIKRLLQGDT
KKKYFSTCKN
PAVLPIDHVV
TYFAPSNEAW
RMLTKDLKNG
HGNQIATNGV
AAITSDILEA
DKVASEALMK
CDGDSITVNG
VIELAGKQQT
FSDDTL SMDQ
GGKQLRVFVY
KPAEKS LHEK
LFVPTNDAFK
IGKGFEPGVT
DIMTTNGVIH
IKFVRGSTFK
IKTEGPTLTK
YTKI IDGVPV
EETLKKLLQE
PVRKLQANKK

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Biological Activity

1. Immobilized Human Periostin, His Tag at 1 µg/mL (100 µL/well) on the plate. Dose response curve for Anti-Periostin Antibody, hFc Tag with the EC₅₀ of 9.3 ng/mL determined by ELISA.

2. Immobilized Human Periostin, His Tag at 0.5 µg/mL (100 µL/well) on the plate. Dose response curve for Anti-Periostin Antibody, hFc Tag with the EC₅₀ of 18.5 ng/mL determined by ELISA.

Appearance

Lyophilized powder.

Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before

	lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years from date of receipt. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Periostin protein emerges as a multifaceted regulator, demonstrating its capability to induce cell attachment and spreading while actively participating in cell adhesion. Additionally, Periostin enhances the incorporation of BMP1 into the fibronectin matrix within connective tissues, subsequently facilitating the proteolytic activation of lysyl oxidase LOX. This multifunctional protein exists as a homodimer, emphasizing its structural significance. Notably, Periostin engages in interactions with BMP1 and fibronectin, underscoring its involvement in pivotal molecular processes that contribute to cell adhesion, tissue architecture, and extracellular matrix modulation. The intricate interplay between Periostin and its binding partners positions it as a key player in the dynamic regulation of cellular and tissue functions.

Caution: Product has not been fully validated for medical applications. For research use only.

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