

## Recombinant Human POSTN, His-tagged

Cat. No. POSTN-3695H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Total 671 AA. MW: 75 kDa (calculated). N-Terminal HisTag and Xa-cleavage site 23 AA (highlighted).
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	22-669 aa
<b>Description</b>	POSTN is a protein that in humans is encoded by the POSTN gene. Its over-expression was reported in several types of cancer, most frequently in the environment of tumor cells.
<b>Form</b>	Filtered (0,4 µm) and lyophilized in 0.5 mg/mL in 0.05 M Acetate buffer pH4.
<b>Research topic</b>	Bone and cartilage metabolism; Cardiovascular disease; Cytokines and chemokines and related molecules
<b>Purity</b>	>90%
<b>Reconstitution</b>	Add 0.1M Acetate buffer pH4 to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10µg/mL. In higher concentrations the solubility of this antigen is limited. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the

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cell culture.

**Applications**

ELISA; Western blotting

**Quality Control Test**

BCA to determine quantity of the protein; SDS PAGE to determine purity of the protein

**Sequences of amino acids**

MGHHHHHHHH HHSSGHIEGR HMRNNHYDKI LAHSRIRGRD QGPNVCALQQ  
 ILGTTKKYFS TCKNWKYSI CGQKTTVLYE CCPGYMRMEG MKGCPAVLPI  
 DHVYGTLGIV GATTTQRYSD ASKLREEIEG KGSFTYFAPS NEAWDNLDSD  
 IRRGLESNVN VELLNALHSH MINKRMLTKD LKNGMIIPSM YNNLGLFINH  
 YPNGVVTVNC ARIIHGNQIA TNGVVHVIDR VLTQIGTSIQ DFIEAEDDLS  
 SFRAAAITSD ILEALGRDGH FTLFAPTNEA FEKLPRGVLE RFMGDKVASE  
 ALMKYHILNT LQCSESIMGG AVFETLEGNT IEIGCDGDSI TVNGIKMVNK  
 KDIVTNGVI HLIDQVLIPD SAKQVIELAG KQQTTFIDLV AQLGLASALR  
 PDGEYTLAP VNAFSDDTL SMVQRLLKLI LQNHILKVKV GLNELYNGQI  
 LETIGGKQLR VFVYRTAVCI ENSCMEKGSK QGRNGAIHIF REIKPAEKS  
 LHEKQDKR FSTFLSLLEA ADLKELLTQP GDWTLFVPTN DAFKGMTSEE  
 KEILIRDKNA LQNIILYHLT PGVFIGKGFV PGVTNILKTT QGSKIFLKEV  
 NDTLLVNELK SKESDIMTTN GVIHVVDKLL YPADTPVGND QLLEILNKLI  
 KYIQIKFVRG STFKEIPVTY Y

**Storage**

Store lyophilized protein at -20°C. Lyophilized protein remains stable until the expiry date when stored at -20°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after one week at 4°C.

**GENE INFORMATION**

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<b>Gene Name</b>	POSTN periostin, osteoblast specific factor [ Homo sapiens ]
<b>Official Symbol</b>	POSTN
<b>Synonyms</b>	POSTN; periostin, osteoblast specific factor; PN; OSF2; OSF-2; PDLPOSTN; MGC119510; MGC119511; periostin; RP11-412K4.1; periostin; OTTHUMP00000018268; OTTHUMP00000018269; OTTHUMP00000018270; OTTHUMP00000018271; periostin isoform thy2; periostin isoform thy4; periostin isoform thy6; periostin isoform thy8; osteoblast-specific factor 2; periodontal ligament-specific periostin; osteoblast specific factor 2 (fasciclin I-like)
<b>Gene ID</b>	10631
<b>mRNA Refseq</b>	NM_006475
<b>Protein Refseq</b>	NP_006466
<b>MIM</b>	608777
<b>UniProt ID</b>	Q15063
<b>Chromosome Location</b>	13q13
<b>Function</b>	heparin binding

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