

Product datasheet

Recombinant Human Periostin protein ab203522

1 Image

Description

Product name	Recombinant Human Periostin protein
Purity	> 90 % SDS-PAGE.
Endotoxin level	< 1.000 Eu/μg
Expression system	Escherichia coli
Accession	Q15063
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human

Sequence

MGHHHHHHHHHHSSGHIEGRHMRNNHYDKILAHSRIRG
 RDQGPNCALQQ
 ILGTTKKYFSTCKNWKYSICGQKTTVLYECCPGYMRM
 EGMKGCPAVLPI
 DHVYGTLGIVGATTTQRYSDASKLREEIEGKGSFTYFAP
 SNEAWDNLDSD
 IRRGLESNVNVELLNALHSHMINKRMLTKDLKNGMIIPS
 MYNNLGLFINH
 YPNGVVTVNCARIIHGNQIATNGVVHVIDRVLTQIGTSIQ
 DFIEAEDDLS
 SFRAAAITSDILEALGRDGHFTLFAPTNEAFEKLPGRVL
 ERFMGDKVASE
 ALMKYHILNLTQCSESIMGGAVFETLEGNTIEIGCDGDSI
 TVNGIKMVNK
 KDMVTNNGVIHLIDQVLIPDSAKQVIELAGKQQTTFDLV
 AQLGLASALR
 PDGEYTLAPVNNAFSDDTLSMVQRLLKLILQNHILKVK
 VGLNELYNGQI
 LETIGGKQLRVFVYRTAVCIENSCMEKGSKQGRNGAIHI
 FREIKPAEKS
 LHEKLGQDKRFSTFLSLLEAADLKELLTQPGDWTLFV
 PTNDAFKGMTSEE
 KEILIRDKNALQNILYHLTPGVFIGKGFEPGVTNILKTTQG
 SKIFLKEV

NDTLLVNELKSKESDIMTTNGVIHVVDKLLYPADTPVG
NDQLLEILNKLI KYIQKFVRGSTFKEIPVTY

Predicted molecular weight	75 kDa including tags
Amino acids	22 to 669
Tags	His tag N-Terminus
Additional sequence information	Also contains an Xa – cleavage site at amino acid 23.

Specifications

Our [Abpromise guarantee](#) covers the use of **ab203522** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Western blot ELISA
Form	Lyophilised
Additional notes	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.

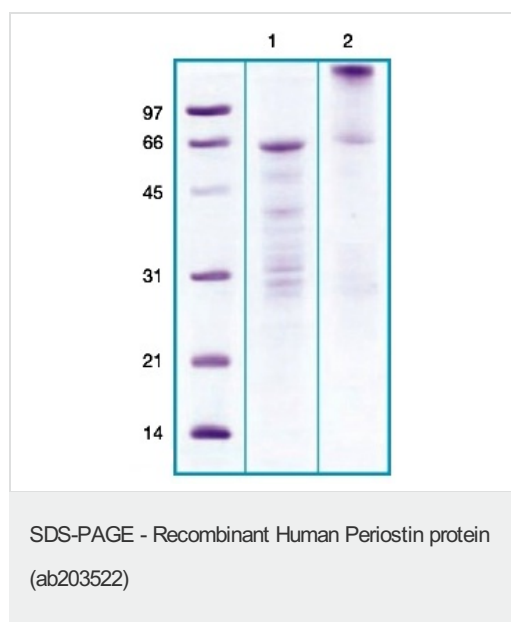
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -80°C. Avoid freeze / thaw cycle. pH: 4.00 0.05 M Acetate buffer
Reconstitution	Add 0.1 M acetate buffer pH 4.0 to prepare a working stock solution of 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 10 µg/mL. In higher concentrations the solubility of this antigen is limited. Filter sterilize your culture media/working solutions containing this non-sterile product before using in cell culture.

General Info

Function	Binds to heparin. Induces cell attachment and spreading and plays a role in cell adhesion. May play a role in extracellular matrix mineralization.
Tissue specificity	Widely expressed with highest levels in aorta, stomach, lower gastrointestinal tract, placenta, uterus and breast. Up-regulated in epithelial ovarian tumors. Not expressed in normal ovaries. Also highly expressed at the tumor periphery of lung carcinoma tissue but not within the tumor. Overexpressed in breast cancers.
Sequence similarities	Contains 1 EMI domain. Contains 4 FAS1 domains.
Post-translational modifications	Gamma-carboxyglutamate residues are formed by vitamin K dependent carboxylation. These residues are essential for the binding of calcium.
Cellular localization	Secreted > extracellular space > extracellular matrix.

Images



12% SDS-PAGE analysis of ab203522.

Lane 1: Reduced and heated sample, 5 µg/lane

Lane 2: Non-reduced and non-heated sample, 5 µg/lane

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