

For Research Use Only

Recombinant Human Periostin protein (rFc Tag)



Catalog Number: Eg4564

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ μ g protein, LAL method

Source:

HEK293-derived Human Periostin protein Asn22-Gln836 (Accession# Q15063-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

10631

Accession:

Q15063-1

Predicted Molecular Mass:

117.2 kDa

SDS-PAGE:

120-150 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Periostin (POSTN, PN), originally named as osteoblast-specific factor 2 (OSF-2), is a 90-kDa secreted protein which is now classified as a matricellular protein. It is present in a wide variety of normal adult tissues and fetal tissues, and has a role in bone, tooth and heart development and function. Studies show that periostin is overexpressed in a broad range of human cancer types, including lung, ovary, breast and colon cancers. Recent evidence reveals that periostin is expressed by fibroblasts in the normal tissue and in the stroma of the primary tumour, and it is required to allow cancer stem cell maintenance.

References

1. Gillan, Lindsay et al. Cancer research vol. 62,18 (2002): 5358-64.
2. Morra, Laura, and Holger Moch. Virchows Archiv : an international journal of pathology vol. 459,5 (2011): 465-75.
3. Duchamp de Lageneste, Oriane, and Céline Colnot. Advances in experimental medicine and biology vol. 1132 (2018): 1-12.

Synonyms

OSF 2, OSF2, OSF-2, Osteoblast specific factor 2, Osteoblast-specific factor 2

Selected Validation Data

□

Purity of Recombinant Human Periostin was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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