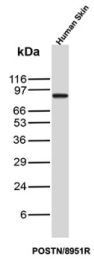
Periostin Antibody / POSTN [clone POSTN/8951R] (V4315)

Catalog No.	Formulation	Size
V4315-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4315-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4315SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

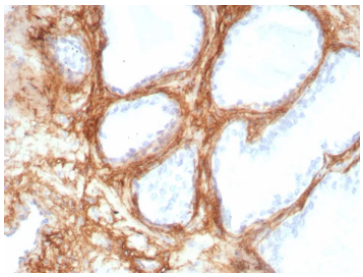
Recombinant RABBIT MONOCLONAL

Bulk quote request

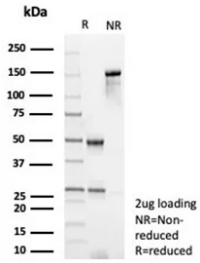
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	POSTN/8951R
Purity	Protein A/G affinity
UniProt	Q15063
Localization	Secreted, Cytoplasm
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 minutes at RT Western blot: 2-4ug/ml
Limitations	This Periostin antibody is available for research use only.



Periostin Antibody Skin WB. Western blot analysis of Periostin / POSTN expression in human skin tissue lysate using recombinant Periostin antibody, clone POSTN/8951R. Lane 1: human skin tissue lysate. A band is detected at approximately 75-90 kDa, consistent with the predicted molecular weight of periostin, with migration variability reflecting glycosylation and isoform diversity characteristic of this secreted extracellular matrix protein.



Periostin Antibody Lung IHC. Immunohistochemistry analysis of Periostin / POSTN expression in FFPE human lung tissue using recombinant Periostin antibody, clone POSTN/8951R. HRP-DAB brown staining highlights extracellular matrix deposition along alveolar septa and peribronchial connective tissue, forming fibrous networks surrounding airspaces, while epithelial cells show minimal intracellular signal; nuclei are counterstained blue. Antigen retrieval was performed by boiling sections in 10 mM Tris buffer with 1 mM EDTA, pH 9, for 20 min followed by cooling at room temperature.



Periostin Antibody SDS-PAGE. SDS-PAGE analysis of purified Periostin antibody, clone POSTN/8951R, under reducing (R) and non-reducing (NR) conditions with 2 ug protein loading. The non-reduced sample shows a predominant band corresponding to intact immunoglobulin, while the reduced sample resolves into bands consistent with heavy and light chains, confirming antibody integrity and expected structural composition.

Description

Periostin (POSTN) is a secreted extracellular matrix glycoprotein that plays a central role in tissue remodeling, cell adhesion, and extracellular matrix organization. Periostin (POSTN) is also known as osteoblast specific factor 2 and is widely expressed in connective tissues, particularly in areas undergoing active remodeling or mechanical stress. Periostin Antibody / POSTN is useful for detecting this stromal-associated protein in studies focused on fibrosis, tumor microenvironment dynamics, and tissue repair processes. POSTN is prominently expressed in fibroblasts and stromal cells and is enriched in tissues such as periosteum, heart, lung, and kidney, where it contributes to structural integrity and cellular signaling.

Periostin antibody, also referred to as POSTN antibody or osteoblast specific factor 2 antibody, recognizes a matricellular protein that interacts with integrins and other extracellular matrix components to regulate cell adhesion, migration, and survival. POSTN contains fasciclin-like domains that mediate binding to integrins such as alpha v beta 3 and alpha v beta 5, facilitating activation of downstream signaling pathways involved in cell motility and extracellular matrix deposition. As a secreted protein, periostin is deposited into the extracellular matrix, where it contributes to the organization and stabilization of collagen-rich networks and supports tissue architecture.

POSTN expression is strongly induced during wound healing, fibrosis, and tumor progression, where it plays a key role in extracellular matrix remodeling and stromal activation. In fibrotic diseases, elevated periostin levels contribute to excessive matrix deposition and increased tissue stiffness. In cancer, POSTN is frequently upregulated in tumor-associated stroma and has been linked to enhanced tumor growth, invasion, and metastatic potential. Its expression is often associated with activated fibroblasts and desmoplastic reactions, making it a valuable marker for studying stromal biology and tumor microenvironment interactions.

Periostin also participates in signaling pathways that regulate cell survival and differentiation, particularly through interactions with integrin receptors and activation of pathways such as PI3K/AKT and focal adhesion kinase signaling. These pathways contribute to cell proliferation, migration, and resistance to apoptosis, highlighting the importance of POSTN in both normal tissue maintenance and disease processes. Its role in mechanotransduction further links it to tissues subjected to mechanical stress, including cardiovascular and skeletal systems.

Given its strong association with extracellular matrix remodeling, fibrosis, and tumor-associated stroma, POSTN is an important target for investigating connective tissue biology and disease progression. A Periostin antibody can be used in western blot, immunohistochemistry, or other research assays to evaluate POSTN expression in tissue samples and experimental models, supporting studies in fibrosis, cancer biology, and extracellular matrix signaling.

This antibody is part of a broader antibody panel offered by NSJ Bioreagents.

Application Notes

Optimal dilution of the Periostin antibody should be determined by the researcher.

Immunogen

A recombinant fragment of human POSTN protein was used as the immunogen for the Periostin antibody.

Storage

Aliquot the Periostin antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

Periostin antibody, POSTN antibody, Osteoblast specific factor 2 antibody, OSF-2 antibody, PN antibody

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