

POSTN Antibody for IHC / Periostin [clone MSVA-649M] (V6061)

Catalog No.	Formulation	Size
V6061-100UG	Antibody in 1X PBS with 0.05% BSA, 0.05% sodium azide	100 ug
V6061-20UG	Antibody in 1X PBS with 0.05% BSA, 0.05% sodium azide	20 ug

[Bulk quote request](#)

Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	MSVA-649M
Purity	Protein A affinity
UniProt	Q15063
Localization	Extracellular matrix, Extracellular space, Golgi apparatus, Secreted
Applications	Immunohistochemistry (FFPE) : 1:100-1:200
Limitations	This POSTN/Periostin antibody is available for research use only.



POSTN Antibody for IHC Tissue Microarray (TMA). Immunohistochemistry analysis of Periostin POSTN in formalin-fixed paraffin-embedded human normal and cancer tissue microarrays using recombinant mouse monoclonal POSTN antibody clone MSVA-649M. Tissue microarray (TMA) staining with HRP-DAB brown chromogen demonstrates predominant localization within stromal and extracellular matrix compartments, with limited staining in epithelial cells, consistent with the role of Periostin in connective tissue organization. Within tumor tissue microarrays, increased stromal signal is observed across multiple carcinoma types, highlighting cancer-associated fibroblasts and peritumoral connective tissue. Evaluation across large TMA panels enables direct comparison of POSTN expression across diverse tissue types under standardized conditions. The observed staining patterns align with reported POSTN expression profiles in publicly available datasets including the Human Protein Atlas.

Description

POSTN antibody recognizes Periostin, a secreted extracellular matrix protein encoded by the POSTN gene and also

known as osteoblast specific factor 2. POSTN Antibody for IHC (clone MSVA-649M) is a mouse monoclonal antibody developed for immunohistochemical detection of this matricellular protein in formalin-fixed, paraffin-embedded tissues. Periostin is synthesized with a signal peptide and secreted into the extracellular space, where it integrates into the interstitial matrix and basement membrane to regulate tissue architecture and cell-matrix signaling.

POSTN antibody, also referred to as Periostin antibody and OSF-2 antibody in the literature, targets a member of the fasciclin family characterized by an N-terminal EMI domain and four tandem fasciclin-like domains. These domains enable interaction with integrins such as alpha v beta 3 and alpha v beta 5, as well as extracellular matrix components including collagen type I and fibronectin. Through these interactions, Periostin supports fibroblast activation, cytoskeletal organization, and collagen fibrillogenesis, particularly in tissues subjected to mechanical stress and remodeling.

POSTN expression is enriched in periosteum, periodontal ligament, heart valves, placenta, and fibrous connective tissues. During development and wound repair, Periostin is upregulated to promote extracellular matrix deposition and structural stabilization. In cardiovascular biology, it contributes to valvular morphogenesis and adaptive remodeling. Increased Periostin expression is also associated with fibrotic conditions, where persistent matrix production contributes to tissue stiffening and organ dysfunction.

In oncology research, Periostin is frequently detected within tumor-associated stroma rather than malignant epithelial cells. Elevated POSTN expression has been reported in breast, lung, colorectal, pancreatic, and ovarian cancers, where it is commonly localized to cancer-associated fibroblasts and peritumoral connective tissue. This stromal distribution pattern makes POSTN antibody for IHC valuable for investigating tumor microenvironment biology, epithelial-mesenchymal interactions, and stromal activation in tissue-based analyses.

The mouse monoclonal clone MSVA-649M enables specific visualization of Periostin expression patterns in normal and diseased tissues for research use at NSJ Bioreagents.

This antibody is also part of a broader collection of [IHC antibodies validated by tissue microarray analysis](#), supporting consistent staining across normal and cancer tissues.

Application Notes

1. Optimal dilution of the POSTN antibody for IHC should be determined by the researcher.
2. Manual Protocol: Freshly cut sections should be used (less than 10 days between cutting and staining). Heat-induced antigen retrieval for 5 minutes in an autoclave at 121°C in pH 7.8 Target Retrieval Solution buffer. Apply the antibody at a dilution of 1:150 at 37°C for 60 minutes. Visualization of bound antibody by the EnVision Kit (Dako, Agilent) according to the manufacturer's directions.

Immunogen

A recombinant fragment (around amino acids 193-326) of human POSTN protein (exact sequence is proprietary) was used as the immunogen for the POSTN antibody for IHC.

Storage

POSTN/Periostin antibody with sodium azide - store at 2 to 8°C; antibody without sodium azide - store at -20 to -80°C.

