

bs-4994R**[Primary Antibody]**

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Periostin Rabbit pAb**— DATASHEET —**

Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000)
Clonality: Polyclonal		IHC-P (1:100-500)
GeneID: 10631	SWISS: Q15063	IHC-F (1:100-500)
Target: Periostin		IF (1:100-500)
Immunogen: KLH conjugated synthetic peptide derived from human Periostin.: 21-120/836.		ELISA (1:5000-10000)
Purification: affinity purified by Protein A		Reactivity: (predicted: Human, Mouse, Rat, Rabbit, Pig, Cow, Horse)
Concentration: 1mg/ml		Predicted MW.: 100 kDa
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		Subcellular Location: Secreted ,Extracellular matrix
Background: Periostin is a disulfide linked 90 kDa, 811 amino acid protein originally isolated as a osteoblast-specific factor that functions as a cell adhesion molecule for preosteoblasts and is thought to be involved in osteoblast recruitment, attachment and spreading. Additionally, periostin expression has previously been shown to be significantly increased by both transforming growth factor beta 1(TGF beta 1) and bone morphogenetic protein (BMP2). Periostin has a typical signal sequence, followed by a cysteine-rich domain, a fourfold repeated domain and a C-terminal domain. The fourfold repeated domain of OSF2 shows homology with the insect protein fasciclin. Periostin mRNA is expressed in the developing mouse embryonic and fetal heart, and that it is localized to the endocardial cushions that ultimately divide the primitive heart tube into a four-chambered heart. Abnormal expression of periostin is also linked to angiogenesis and metastasis in epithelial tumors.		

— SELECTED CITATIONS —

- **[IF=4.547]** Zheng, Qingbo. et al. Construction of transcriptome atlas of white yak hair follicle during anagen and catagen using single-cell RNA sequencing. BMC GENOMICS. 2022 Dec;23(1):1-14 IHC ;Yak. 36482306
- **[IF=4.8]** Dongfeng Sun. et al. The impact of POSTN on tumor cell behavior and the tumor microenvironment in lung adenocarcinoma. INT IMMUNOPHARMACOL. 2025 Jan;145:113713 IHC,mIF ;Human. 39672019
- **[IF=4.225]** Xiaoli Du. et al. Tengdan Capsule Prevents Hypertensive Kidney Damage in SHR by Inhibiting Periostin-Mediated Renal Fibrosis. Front Pharmacol. 2021; 12: 638298 IHC ;Rat. 34084130
- **[IF=2.847]** Gan Caiqin. et al. SPOCK1 and POSTN are valuable prognostic biomarkers and correlate with tumor immune infiltrates in colorectal cancer. BMC GASTROENTEROL. 2023 Dec;23(1):1-17 IHC,IF ;Human. 36611136
- **[IF=2.6]** Yaosen Chen. et al. Development of animal model for anterior open bite and mechanism of temporomandibular joint morphological change: an implication for MAC surgery. BMC ORAL HEALTH. 2025 Feb 22;25(1):283. IHC ;Rat. 39987077