

ARG52392 anti-Periostin antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Periostin
Tested Reactivity	Hu, Ms, Chk
Predict Reactivity	Bird, Mamm
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Periostin
Species	Mouse
Immunogen	Bacterial fusion protein equivalent to a 188-amino acid polypeptide from the C-terminal region of mouse periostin which is comprised of six small alternatively-spliced exons
Conjugation	Un-conjugated
Alternate Names	OSF2; PN; Osteoblast-specific factor 2; Periostin; OSF-2; PDLPOSTN

Application Instructions

Application table	Application	Dilution
	IHC-P	1:100
	WB	1:1000

Application Note

Specific for the ~93 kDa periostin doublet in mouse lung extract. Consistent with the fact that this antibody is made against an alternatively spliced region of periostin, this antibody recognizes only the largest two of the three forms of periostin recognized on Western blots by the Pan periostin antibody (Cat. # 1622-PERI) and also shows a distinctive staining pattern by immunohistochemistry (data not shown). The antibody works well for immunohistochemistry on paraformaldehyde-fixed sections with a simple antigen-retrieval protocol (incubate slides for 20 minutes at 90° C in 10 mM sodium citRate (pH 6.0)/ 0.1 % Tween-20).

* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Affinity Purified
Buffer	PBS
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links

[GeneID: 10631 Human](#)

[GeneID: 50706 Mouse](#)

[Swiss-port # Q15063 Human](#)

[Swiss-port # Q62009 Mouse](#)

Gene Symbol

POSTN

Gene Full Name

periostin, osteoblast specific factor

Background

Periostin is a matricellular protein, i.e. an extracellular matrix protein that interacts both with other ECM proteins and with cell-surface receptors. Like many other matricellular proteins, the function of periostin is important both in embryonic development and in the remodeling of adult tissues in response to pathological insults. Periostin was originally isolated as an osteoblast-specific marker that functions as a cell adhesion molecule for preosteoblasts and is thought to be involved in osteoblast recruitment, attachment and spreading (Kruzynska-Frejttag A. et al., 2004). Periostin has since been demonstrated to be important in heart valve development and myocardial infarction because it promotes collagen fibrogenesis, inhibits differentiation of progenitor cells into cardiomyocytes and is essential in maintaining the biomechanical properties of the adult myocardium (Norris et al., 2008).

Research Area

Cancer antibody; Cell Biology and Cellular Response antibody; Controls and Markers antibody; Signaling Transduction antibody

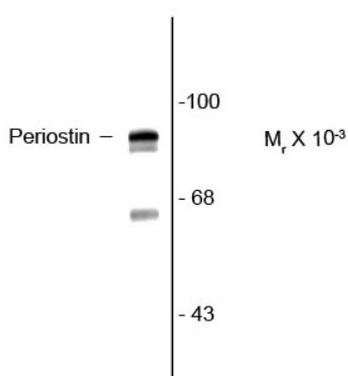
Calculated Mw

93 kDa

PTM

Gamma-carboxylation is controversial. Gamma-carboxyglutamated; gamma-carboxyglutamate residues are formed by vitamin K dependent carboxylation; this may be required for calcium binding (PubMed:18450759). According to a more recent report, does not contain vitamin K-dependent gamma-carboxyglutamate residues (PubMed:26273833).

Images



ARG52392 anti-Periostin antibody WB image

Western Blot: rat lung lysate showing specific immunolabeling of the ~ 93 kDa periostin protein doublet.