ARG52393
anti-Periostin (pan) antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Periostin (pan)
Tested Reactivity	Hu, Ms, Rat, Chk
Predict Reactivity	Amph, Bird, Fsh, Mamm
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Periostin (pan)
Species	Mouse
Immunogen	Synthetic peptide corresponding to amino acid residues from the fasciclin domain 1 of mouse periostin
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 three periostin bands around ~93 kDa in mouse lung extract. The immunogenic peptide is present in all known splice variants of periostin and therefore this antibody recognizes all known molecular forms of periostin. The antibody also works well for immunohistochemistry on paraformaldehyde-fixed sections with a simple antigenretrieval protocol (incubate slides for 20 minutes at 90º 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.

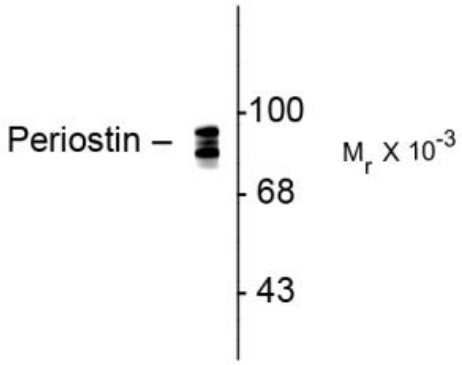
Properties

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-Frejtag A. et al., 2004). Periostin has recently been shown to promote collagen fibrogenesis, inhibit differentiation of progenitor cells into cardiomyocytes and to be 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



ARG52393 anti-Periostin (pan) antibody WB image

Western blot: rat lung lysate stained with ARG52393 anti-Periostin (pan) antibody showing specific immunolabeling of the ~ 93 kDa periostin protein triplet.