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Datasheet for 600-401-E10

Periostin Antibody

Overview

Description:	Anti-Periostin (RABBIT) Antibody - 600-401-E10
Item No.:	600-401-E10
Size:	100 µL
Applications:	IHC, WB
Reactivity:	Human, Mouse, Chicken
Host Species:	Rabbit

Product Details

Background:	Periostin Antibody detects Periostin protein. 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. 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. Anti-Periostin Antibody is ideal for investigators involved in Cancer and Cardiovascular research.
Synonyms:	PN, Osteoblast-specific factor 2, OSF-2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Postn
Reactivity:	Human, Mouse, Chicken
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Periostin Antibody was produced by repeated immunizations with a synthetic peptide corresponding to amino acid residues from the fasciclin domain 1 of mouse periostin.
Purity/Specificity:	Anti-Periostin antibody is directed against mouse Periostin protein. This antibody was affinity purified from monospecific antiserum by immunoaffinity purification. The immunogenic peptide is present in all known splice variants of periostin and therefore this antibody recognizes all known molecular forms of periostin. Reactivity is expected from the following species based on 100% sequence homology: most mammalian, avian, amphibian and fishes.
Relevant Links:	• UniProtKB - Q62009 • GeneID - 50706 • UniProtKB - Q62009.2

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-Periostin Antibody is tested for use in Western Blotting and IHC. Specific conditions for reactivity should be optimized by the end user. Expect a three bands of approximately 93 kDa in size corresponding to periostin pan proteins in mouse lung extract. The antibody is suitable for immunohistochemistry on paraformaldehyde-fixed sections with a simple antigen-retrieval protocol (incubate slides for 20 minutes at 90º C in 10 mM sodium citrate (pH 6.0)/ 0.1 % Tween-20).
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IHC:	1:100
WB:	1:1000

Formulation

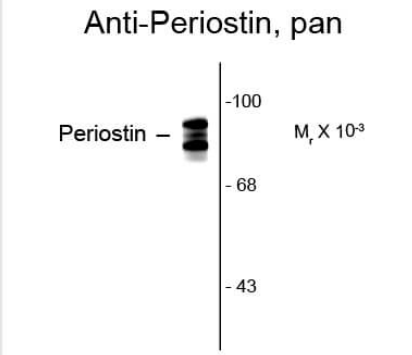
Physical State:	Liquid
Concentration:	Titrated value sufficient to run approximately 10 mini blots.
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western blot of rat lung lysate showing specific immunolabeling of the ~ 93 kDa periostin protein triplet.

Western Blot
Western Blot of Rabbit anti-Periostin antibody. Lane 1: rat lung lysate. Lane 2: none. Load: 10 µg per lane. Primary antibody: Periostin antibody at 1:1,000 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 93 kDa Triplet for Periostin. Other band(s): none.

Disclaimer

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