

Datasheet for 600-401-E09**Periostin Antibody****Overview**

Description:	Anti-Periostin (RABBIT) Antibody - 600-401-E09
Item No.:	600-401-E09
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 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. 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:	Recombinant Protein

Immunogen:	Anti-Periostin Antibody was produced by repeated immunizations with bacterial fusion proteins equivalent to a 188 amino acid polypeptide from the C-terminal region of mouse periostin which is comprised of six small alternatively spliced exons.
Purity/Specificity:	Anti-Periostin antibody is directed against mouse Periostin protein. The antibody was affinity purified from monospecific antiserum by immunoaffinity purification. This antibody is made against an alternatively spliced region of periostin. This antibody recognizes only the largest two of the three isoforms of periostin on Western blots and also shows a distinctive staining pattern by immunohistochemistry (data not shown). Reactivity is expected from the following species based on 100% sequence homology: most mammalian and avian. Cross reactivity with Periostin from other species has not been determined
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 band of approximately 93 kDa in size corresponding to periostin doublet in mouse lung extract. 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).
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

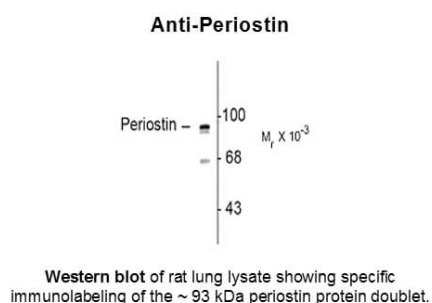
Physical State:	Liquid
Concentration:	titrated reagent Sufficient to run approximately 10 miniblots
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Shipping & Handling

Shipping Condition:	Dry Ice
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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

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 Doublet for Periostin. Other band(s): Periostin splice variants and isoforms.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.