

**Anti-Periostin/OSF2 Antibody**  
**Catalog # ABO11355****Specification**

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**Anti-Periostin/OSF2 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q62009</a>
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Periostin(POSTN) detection. Tested with WB in Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-Periostin/OSF2 Antibody - Additional Information**

**Gene ID** 50706

**Other Names**

Periostin, PN, Osteoblast-specific factor 2, OSF-2, Postn, Osf2

**Calculated MW**

93144 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Mouse, Rat<br>

**Subcellular Localization**

Golgi apparatus. Secreted, extracellular space, extracellular matrix. Colocalizes with BMP1 in the Golgi.

**Tissue Specificity**

Preferentially expressed in periosteum and periodontal ligament. Also expressed in the developing and adult heart. .

**Protein Name**

Periostin

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the N-terminus of mouse Periostin(24-41aa NSYYDKVLAHSRIRGRDQ), identical to the related rat sequence, and different from the related human sequence by three amino acids.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Sequence Similarities**

Contains 1 EMI domain.

**Anti-Periostin/OSF2 Antibody - Protein Information****Name** Postn**Synonyms** Osf2**Function**

Induces cell attachment and spreading and plays a role in cell adhesion (PubMed: [10404027](http://www.uniprot.org/citations/10404027)). Enhances incorporation of BMP1 in the fibronectin matrix of connective tissues, and subsequent proteolytic activation of lysyl oxidase LOX (PubMed: [20181949](http://www.uniprot.org/citations/20181949)).

**Cellular Location**

Golgi apparatus. Secreted Secreted, extracellular space, extracellular matrix. Note=Colocalizes with BMP1 in the Golgi (PubMed:20181949).

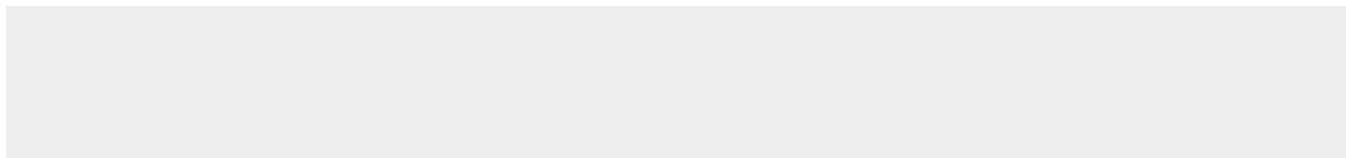
**Tissue Location**

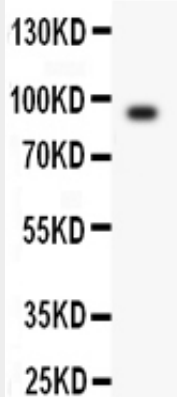
Preferentially expressed in periosteum and periodontal ligament (PubMed:10404027). Also expressed in the developing and adult heart (PubMed:11335131)

**Anti-Periostin/OSF2 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-Periostin/OSF2 Antibody - Images**



Anti- Periostin antibody, ABO11355, Western blotting All lanes: Anti Periostin (ABO11355) at 0.5ug/ml WB: Mouse Cardiac Muscle Tissue Lysate at 50ug Predicted bind size: 93KD Observed bind size: 93KD

#### **Anti-Periostin/OSF2 Antibody - Background**

POSTN(Periostin), also known as PN or OSF2, is a protein that in humans is encoded by the POSTN gene. The International Radiation Hybrid Mapping Consortium mapped the POSTN gene to chromosome 13. Gillan et al.(2002) found that purified recombinant PN supported adhesion of ovarian epithelial cells. Shao et al.(2004) found that periostin was overexpressed by the majority of human primary breast cancers examined. Transfected tumor cell lines overexpressing periostin showed accelerated growth and angiogenesis as xenografts in immunocompromised animals. Kuhn et al.(2007) showed that extracellular periostin induced reentry of differentiated mammalian cardiomyocytes into the cell cycle.