10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# Anti-Periostin/OSF2 Antibody
**Catalog # ABO11356**

## Specification

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

| | |
|---|---|
| Application | **WB** |
| Primary Accession | Q15063 |
| Host | **Rabbit** |
| Reactivity | **Human** |
| Clonality | **Polyclonal** |
| Format | **Lyophilized** |

**Description**
Rabbit IgG polyclonal antibody for Periostin(POSTN) detection. Tested with WB in Human.

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

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

**Gene ID** 10631

**Other Names**
Periostin, PN, Osteoblast-specific factor 2, OSF-2, POSTN, OSF2

**Calculated MW**
93314 MW KDa

**Application Details**
Western blot, 0.1-0.5 µg/ml, Human<br>

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

**Tissue Specificity**
Widely expressed with highest levels in aorta, stomach, lower gastrointestinal tract, placenta, uterus, thyroid tissue and breast. Up-regulated in epithelial ovarian tumors. Not expressed in normal ovaries. Also highly expressed at the tumor periphery of lung carcinoma tissue but not within the tumor. Overexpressed in breast cancers. .

**Protein Name**
Periostin

**Contents**
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

**Immunogen**
A synthetic peptide corresponding to a sequence at the C-terminus of human Periostin(811-824aa DTPVRKLQANKKVQ), different from the related mouse sequence by five amino acids, and from the

related rat sequence by four amino acids.

**Purification**
Immunogen affinity purified.

**Cross Reactivity**
No cross reactivity with other proteins

Storage

**At -20˚C for one year. After r˚Constitution, 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:<a href="http://www.uniprot.org/citations/12235007" target="_blank">12235007</a>). Enhances incorporation of BMP1 in the fibronectin matrix of connective tissues, and subsequent proteolytic activation of lysyl oxidase LOX (By similarity).

**Cellular Location**
Golgi apparatus {ECO:0000250|UniProtKB:Q62009}. Secreted Secreted, extracellular space, extracellular matrix Note=Colocalizes with BMP1 in the Golgi {ECO:0000250|UniProtKB:Q62009}

**Tissue Location**
Widely expressed with highest levels in aorta, stomach, lower gastrointestinal tract, placenta, uterus, thyroid tissue and breast. Expressed in the kidney (PubMed:21763681). Expressed in the lung (PubMed:22079858). Up-regulated in epithelial ovarian tumors. Not expressed in normal ovaries. Also highly expressed at the tumor periphery of lung carcinoma tissue but not within the tumor Overexpressed in breast cancers.

## 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 Cytomety
- Cell Culture

## Anti-Periostin/OSF2 Antibody - Images

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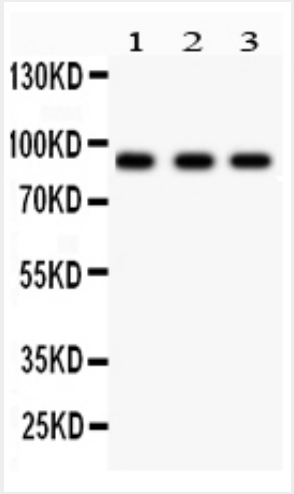


Anti- Periostin antibody, ABO11356, Western blottingAll lanes: Anti Periostin (ABO11356) at 0.5ug/mlLane 1: HELA Whole Cell Lysate at 40ugLane 2: MCF-7 Whole Cell Lysate at 40ugLane 3: SKOV Whole Cell Lysate at 40ugPredicted bind size: 93KDObserved bind size: 93KD

**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.