

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

Anti-Periostin/OSF2 Antibody - Product Information

Application	WB
Primary Accession	Q62009
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

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 Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

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).

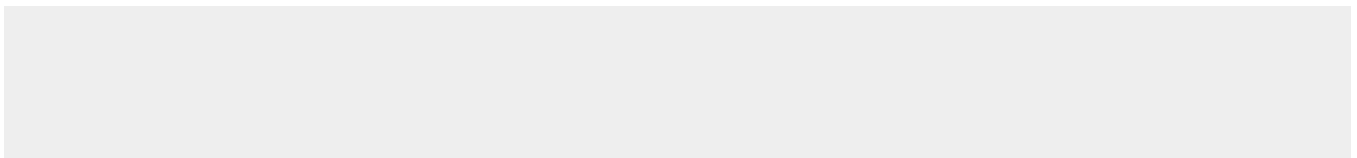
Tissue Location

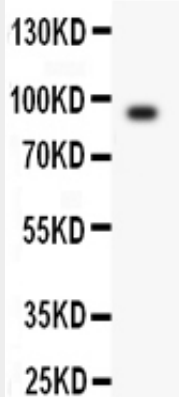
Preferentially expressed in periosteum and periodontal ligament (PubMed:10404027). Also expressed in the developing and adult heart (PubMed:11335131)

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.