

Anti-Periostin/OSF2 Antibody

Catalog # ABO11355

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.

Additional Information

Gene ID	50706
Other Names	Periostin, PN, Osteoblast-specific factor 2, OSF-2, Postn, Osf2
Calculated MW	93144
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. .
Source	Eukaryota
Protein Name	Periostin
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ N.
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.

Protein Information

Name	Postn
Synonyms	Osf2
Function	Induces cell attachment and spreading and plays a role in cell adhesion (PubMed: 10404027). Enhances incorporation of BMP1 in the fibronectin matrix of connective tissues, and subsequent proteolytic activation of lysyl oxidase LOX (PubMed: 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)

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.

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.