

Rabbit Monoclonal Antibody to Mouse Periostin, Osteoblast Specific Factor

Cat. No. CAB11592RM Lot. No. (See product label)

SPECIFICATION

Product Overview	Rabbit Monoclonal Antibody to Mouse Periostin, Osteoblast Specific Factor
Species	Mouse
Source	Rabbit
Antigen Description	Mouse periostin (POSTN), also known as OSF2 (osteoblast specific factor 2), is a heterofunctional secreted extracellular matrix (ECM) protein comprised of four fasciclin domains that promotes cellular adhesion and movement, as well as collagen fibrillogenesis. Postn is expressed in unique growth centers during embryonic development where it facilitates epithelial-mesenchymal transition (EMT) of select cell populations undergoing reorganization. In the adult, Postn expression is specifically induced in areas of tissue injury or areas with ongoing cellular re-organization. In the adult heart Postn is induced in the ventricles following myocardial infarction, pressure overload stimulation, or generalized cardiomyopathy. Although the detailed function of Postn is still unclear, Postn-integrin interaction is thought to be involved in tumor development. Postn is frequently overexpressed in various types of human cancers, stimulating metastatic growth by promoting cancer cell survival, invasion and angiogenesis, and can be a useful marker to predict the behavior of cancer.
Specificity	Mouse Periostin / POSTN. No cross-reactivity in ELISA with Human POSTN; Human cell lysate (293 cell line)

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Immunogen	Recombinant Mouse Periostin / POSTN Protein (
Isotype	Rabbit IgG
Clone	A032
Applications	Western blot; ELISA
Dilution	Western blot: This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Mouse POSTN in WB. Using a DAB detection system, the detection limit for Mouse POSTN is approximately 2 ng/lane under non-reducing conditions and 5 ng/lane under reducing conditions. Direct ELISA: This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect Mouse POSTN. The detection limit for Mouse POSTN is approximately 0.0195 ng/well.
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Mouse Periostin / POSTN
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	Postn periostin, osteoblast specific factor [<i>Mus musculus</i>]
Official Symbol	Postn

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Synonyms	POSTN; periostin, osteoblast specific factor; periostin; periostin-like factor; osteoblast-specific factor 2; osteoblast specific factor 2 (fasciclin I-like); PN; PLF; Osf2; peri; OSF-2; AI747096; A630052E07Rik;
Gene ID	50706
mRNA Refseq	NM_001198765
Protein Refseq	NP_001185694
Function	heparin binding;

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