

Osteocrin Rabbit pAb

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Catalog # AP59294

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P61366
Predicted	Rat, Pig, Dog, Human, Mouse, Rabbit, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	14722
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Osteocrin
Epitope Specificity	83-133/133
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Musclin, also designated osteocrin (Ostn), shows no homology with any known genes, except that it contains two conserved sequence motifs homologous to the natriuretic peptide family. Musclin is highly expressed in cells of osteoblast lineage and in skeletal muscle tissue, where it is tightly regulated by nutritional changes. It is secreted as either a full-length precursor protein or a processed form. A novel skeletal muscle-derived secretory factor, Musclin may play a role in bone formation and be linked to glucose metabolism. Studies indicate that insulin increases Musclin expression, whereas epinephrine, isoproterenol and forskolin reduce its expression. Musclin is expressed in osteoblasts and young osteocytes. In mouse tissues, expression is bone-specific, although minimal Musclin expression is also observed in muscle, kidney, testis and heart tissues.

Additional Information

Gene ID	344901
Other Names	Osteocrin, Musclin, Processed Osteocrin, OSTN (HGNC:29961)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	OSTN (HGNC:29961)
Function	Hormone that acts as a regulator of dendritic growth in the developing cerebral cortex in response to sensory experience (PubMed: 27830782). Induced in the brain following membrane depolarization and inhibits dendritic branching in neurons of the developing cortex (PubMed: 27830782). Probably acts by binding to natriuretic peptide receptor NPR3/NPR-C, thereby preventing binding between NPR3/NPR-C and natriuretic peptides, leading to increase cGMP production (By similarity).
Cellular Location	Secreted.
Tissue Location	Enriched in neocortical regions of the developing cerebral cortex (PubMed:27830782). Not expressed in other compartments of the neocortical wall or in brain regions such as the hippocampus, striatum, mediodorsal nucleus of the thalamus and cerebellum (PubMed:27830782). Also expressed in bone (PubMed:14523025). In developing neonatal rib bone, present at high level in osteoblasts on bone-forming surfaces, in newly incorporated osteocytes and in some late hypertrophic chondrocytes (at protein level) (PubMed:15923362). In adult bone, localizes specifically to osteoblasts and young osteocytes at bone-forming sites (at protein level) (PubMed:15923362)

Background

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