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Osteocalcin Mouse mAb

Catalog # AP96641

Product Information

Application	WB
Reactivity	Human
Predicted	Rabbit
Host	Mouse
Clonality	Monoclonal
Calculated MW	11 KDa
Physical State	Lyophilized or Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Osteocalcin
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M PBS(pH7.4)
SIMILARITY	Belongs to the osteocalcin/matrix Gla protein family.Contains 1 Gla (gamma-carboxy-glutamate) domain.
Post-translational modifications	Gamma-carboxyglutamate residues are formed by vitamin K dependent carboxylation. These residues are essential for the binding of calcium.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Osteocalcin belongs to the osteocalcin/matrix Gla protein family and constitutes 1 to 2% of the total bone protein. It is a 49 amino acid single chain vitamin K dependent protein, made by osteoblasts, and is a major component of the noncollagenous bone matrix. Post translational modification by a vitamin K dependent carboxylase produces three gamma carboxyglutamic acid residues at positions 17, 21 and 24, giving it a high affinity for calcium. It also binds strongly to apatite.

Additional Information

Other Names	BGP; OC; OCN; Bglap2; Bgpr; Bgpra; OSTCN_BOVIN; BGLAP; Bone Gla protein (BGP); Gamma-carboxyglutamic acid-containing protein; OSTCN_HUMAN; OSTCN_PIG; OSTCN_RAT; bone gamma-carboxyglutamate protein; bone gamma-carboxyglutamate (gla) protein; osteocalcin; bone gla protein
Dilution	WB=1:500-2000
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.
Name	Osteocalcin Mouse mAb
Function	Constitutes 1-2% of the total bone protein. It binds strongly to apatite and calcium.

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