

Osteocalcin [OCG4], Antibody

GenWay ID: GWB-1D5A01
Legacy ID: 20-272-190834
Size: 0.05 mg
Source: Mouse
Reactivity: Cross-reacts with Human, Cow, Chicken, Dog, Goat, Pig, Rabbit and Sheep.
Does not cross-react with Mouse or Rat. Not yet tested in other species.

Details for Osteocalcin [OCG4], Antibody

Clone: OCG4

Isotype: IgG1

Immunogen: Full length protein (Cow).

Antigen Species: Bovine **Target:** Osteocalcin

Localization: Secreted

Concentration: 1 mg/ml **Storage Buffer:** Preservative: 0.1% Sodium Azide; Constituents: 1% BSA, 10mM PBS. pH 7.4

Application Note: ELISA: Use at an assay dependent dilution. Sandwich ELISA with 18-272-195706 is possible. IHC-P: Use at a concentration of 10 µg/ml. IHC-Fr: Use at a concentration of 10 µg/ml. WB: Use at an assay dependent dilution. Predicted molecular weight: 12 kDa. Reducing or non-reducing conditions possible. Not tested in other applications. Optimal dilutions/concentrations should be determined by the end user.

Cellular Localization: Secreted Osteocalcin belongs to the osteocalcin / matrix Gla-protein family and constitutes 1-2% of the total bone protein. It binds strongly to apatite and calcium. Gamma-carboxyglutamate residues are formed by vitamin K dependent carboxylation. These residues are essential for the binding of calcium.

Function: Constitutes 1-2% of the total bone protein. It binds strongly to apatite and calcium.

Subcellular Location: Secreted.

Ptm: Gamma-carboxyglutamate residues are formed by vitamin K dependent carboxylation. These residues are essential for the binding of calcium.

Similarity: Belongs to the osteocalcin/matrix Gla protein family.

Similarity: Contains 1 Gla (gamma-carboxy-glutamate) domain.

Additional Info for Osteocalcin [OCG4], Antibody

Name	Osteocalcin [OCG4], Antibody
Related Product Names	Mouse monoclonal [OCG4] to Osteocalcin; BGP Bone gamma carboxyglutamate (gla) protein Gamma carboxyglutamic acid containing protein BGP Bone gamma carboxyglutamate (gla) protein Gamma carboxyglutamic acid containing proteinOsteocalcin [OCG4]Osteocalcin
NCBI Acc Number	NP_954642.1
Purity	Protein A purified
Format	Liquid
Clonality	Monoclonal
Storage	Keep as concentrated solution. Store at 4C short term. For extended storage aliquot and store at -20C or below. Avoid freeze-thaw cycles.
Molecular Weight	10963
Swiss Prot Number	P02818
Applications	ELISA, IHC-F, IHC-P, WB