

Rabbit Anti-Osteocalcin antibody

SL0470R

Product Name:	Osteocalcin
Chinese Name:	骨钙蛋白/骨钙素抗体
Alias:	Osteocalcin Propeptide; Osteocalcin; Osteocalcin precursor; Gamma-carboxyglutamic acid-containing protein; Bone Gla-protein; BGLAP; Bone gamma carboxyglutamate protein; BGLAP; Bone gamma carboxyglutamate gla protein osteocalcin; Bone gamma carboxyglutamate protein; Bone Gla protein; Gamma carboxyglutamic acid containing protein; OC; PMF1; OSTCN_HUMAN.
	Specific References(2) SL0470R has been referenced in 2 publications.
	[IF=3.68]Zhang, Ping, et al. WB;Rat.
文献引用	[IF=3.08]Zhan, Fu-Liang, Xin-Yang Liu, and Xing-Bo Wang. "The Role of
Pub	MicroRNA-143-5p in the Differentiation of Dental Pulp Stem Cells into Odontoblasts
:	by Targeting Runx2 via the OPG/RANKL Signaling Pathway." Journal of Cellular
	Biochemistry (2017). WB; Human.
	PubMed:28608628
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human, Mouse, Rat, Dog, Cow, Horse,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-
	500 (Paraffin sections need antigen repair)
	not yet tested in other applications.
	optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	11kDa
Cellular localization:	Secretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
	KLH conjugated synthetic peptide derived from human BGP:21-80/100

Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20 °C. 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.
PubMed:	PubMed
Product Detail:	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. Function: Constitutes 1-2% of the total bone protein. It binds strongly to apatite and calcium. Subcellular Location: Secreted. Post-translational modifications: 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. Contains 1 Gla (gamma-carboxy-glutamate) domain. SWISS: P02818 Gene ID: 632 Database links: Entrez Gene: 281646Cow Entrez Gene: 397530Pig Entrez Gene: 397530Pig Entrez Gene: 25295Rat

Omim: 112260Human

SwissProt: P02820Cow

SwissProt: P02818Human

SwissProt: Q8HYY9Pig

SwissProt: P04640Rat

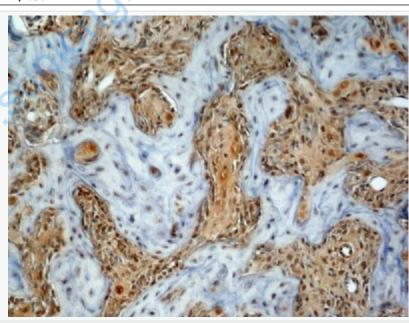
Unigene: 654541Human

Unigene: 9722Rat

Important Note:

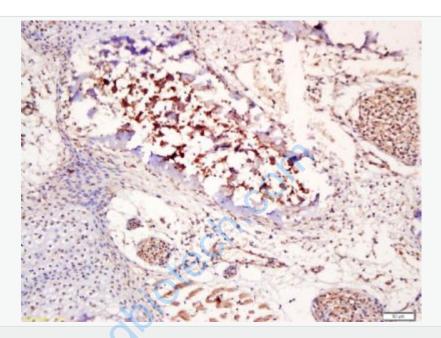
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

骨钙素又称骨γ-羧谷氨酸包含蛋白



Picture:

Generously provided by Markus Linder from Medical University Vienna as part of the Bioss Discovery Program. Formalin-fixed, paraffin embedded, and decalcified in EDTA mouse osteosarcoma labeled with Anti-Osteocalcin Polyclonal Antibody, Unconjugated (SL0470R) at 1:100 followed by conjugation to the secondary antibody and DAB staining



Tissue/cell: bone of mouse embryo; 4% Paraformaldehyde-fixed and paraffinembedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min;

Incubation: Anti-Osteocalcin Polyclonal Antibody, Unconjugated(SL0470R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining