




Rabbit Anti-Osteocalcin antibody

SL4917R

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; BGP; Bone gamma carboxyglutamate gla protein osteocalcin; Bone gamma carboxyglutamate protein; Bone Gla protein; Gamma carboxyglutamic acid containing protein; OC; PMF1; OSTCN_HUMAN.
文献引用 	<p>Specific References(3) SL4917R has been referenced in 3 publications.</p> <p>[IF=8.31]Li, Long, et al. "Controlled dual delivery of BMP-2 and dexamethasone by nanoparticle-embedded electrospun nanofibers for the efficient repair of critical-sized rat calvarial defect." <i>Biomaterials</i> (2014).IHC-P;Rat. PubMed:25453952</p> <p>[IF=4.15]Ding, Shan, et al. "A nano-micro alternating multilayer scaffold loading with rBMSCs and BMP-2 for bone tissue engineering." <i>Colloids and Surfaces B: Biointerfaces</i> (2015).IHC-P;Rat. PubMed:26119373</p> <p>[IF=1.26]Bugue?o, Juan, et al. "Canine mesenchymal stem cell bone regenerative capacity is regulated by site-specific multi-lineage differentiation." <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> (2016).WB;Dog. PubMed:0</p>
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=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
immunogen:	KLH conjugated synthetic peptide derived from human Osteocalcin:21-100/100
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:	<p>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.</p> <p>Function: Constitutes 1-2% of the total bone protein. It binds strongly to apatite and calcium.</p> <p>Subcellular Location: Secreted.</p> <p>Post-translational modifications: Gamma-carboxyglutamate residues are formed by vitamin K dependent carboxylation. These residues are essential for the binding of calcium.</p> <p>Similarity: Belongs to the osteocalcin/matrix Gla protein family. Contains 1 Gla (gamma-carboxy-glutamate) domain.</p> <p>SWISS: P02818</p> <p>Gene ID: 632</p> <p>Database links:</p>

[Entrez Gene: 281646](#)Cow

[Entrez Gene: 632](#)Human

[Entrez Gene: 397530](#)Pig

[Entrez Gene: 25295](#)Rat

[Omim: 112260](#)Human

[SwissProt: P02820](#)Cow

[SwissProt: P02818](#)Human

[SwissProt: Q8HYY9](#)Pig

[SwissProt: P04640](#)Rat

[Unigene: 654541](#)Human

[Unigene: 9722](#)Rat

Important Note:

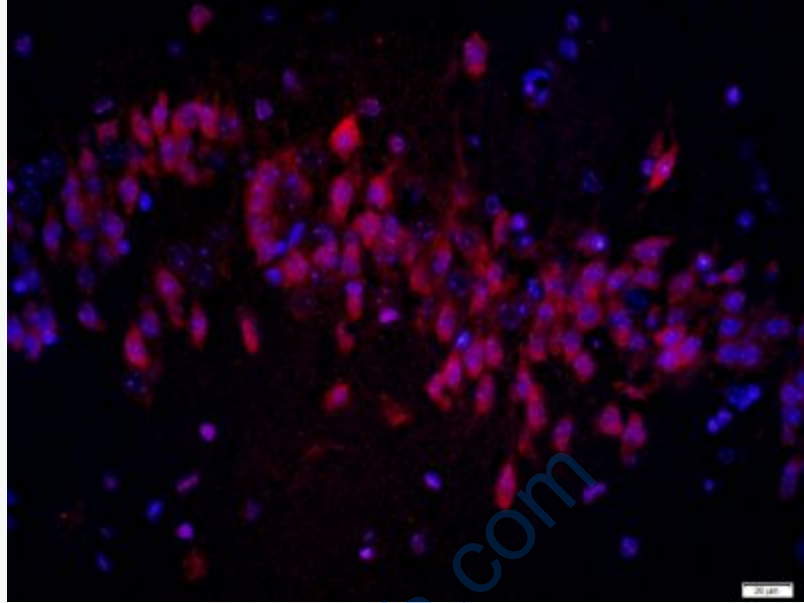
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骨钙素又称骨 γ -羧谷氨酸包含蛋白



Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Osteocalcin) Polyclonal Antibody, Unconjugated (SL4917R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

Picture:



citrate buffer (pH6) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Osteocalcin) Polyclonal Antibody, Unconjugated (SL4917R) at 1:400 overnight at 4°C, followed by a conjugated secondary (Goat Anti-rabbit IgG/Bio) for 20minutes at 37°C, followed by a conjugated streptavidin (SL4917R) at [1:500] for 40 minutes and DAPI staining of the nu Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium clei.