



BMA BIOMEDICALS



Peninsula Laboratories

Rabbit anti Osteocalcin

Osteocalcin, also known as bone gamma-carboxyglutamic acid-containing protein (BGLAP), is a 49-amino acid non-collagenous protein hormone found in bone and dentin, first identified as a calcium-binding protein in chick bone. Because osteocalcin has gla domains, its synthesis is vitamin K dependent. Osteocalcin is secreted solely by osteoblasts and thought to play a role in the body's metabolic regulation. In its carboxylated form it binds calcium directly and thus concentrates in bone.

This antibody was generated by immunization of rabbits with Osteocalcin coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Catalog Number:	T-4743 (Lot A17722)
Clonality:	Polyclonal
Host species:	Rabbit IgG
Reactivity:	Human
Quantity:	400µg
Format:	Protein A affinity purified from antiserum, lyophilized. This stock solution contains 2mg/ml IgG, phosphate buffer saline pH 7.4 (PBS), and 0.02% (w/v) Thimerosal as a preservative. Reconstitute by adding 0.2ml of distilled water.
Stability and Storage:	Original vial: 1 year at 4° - 8°C from date of purchase. Stock solution and aliquots thereof: 1 year at -20°C. Avoid freeze-thaw cycles.
Immunogen:	Synthetic peptide H-Tyr-Leu-Tyr-Gln-Trp-leu-Gly-Ala-Pro-Val-Pro-Tyr-Pro-Asp-Pro-Leu-Glu-Pro-Arg-Arg-Glu-Val-Cys-Glu-Leu-Asn-Pro-Asp-Cys-Asp-OH coupled to carrier protein.
Protein database:	<u>human-P84351</u>

Cross-Reactivity:

PEPTIDE:	%:
Osteocalcin (1-49) (human)	100
Osteocalcin (7-19) (human)	0
Osteocalcin (37-49) (human)	0

Cross-Reactivity:

PEPTIDE:	%:
Osteogenic Growth peptide	0
Osteostatin	0

Applications:

Tested in ELISA against Osteocalcin and in immunohistochemistry (IHC). Other applications like FACS and Western blot may work as well.

Approximate working dilution for IHC:

Paraffin sections: (1:800); pretreatment with Proteinase K for antigen retrieval is recommended.

Optimal dilutions should be determined by the end user.

Please see www.bma.ch for protocols and general information

Related Products:

T-4744: Rabbit anti Osteocalcin (hu), neat antiserum

This product contains Thimerosal as a preservative and is intended for laboratory use and research purposes only. Not for diagnostic or therapeutic applications.