

Product datasheet for **AM05459PU-N**

Osteocalcin (BGLAP) Mouse Monoclonal Antibody [Clone ID: 3H8H12D2A12F12]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3H8H12D2A12F12
Applications:	ELISA
Recommended Dilution:	ELISA: This antibody may be used in combination with AM05458PU-N or AM05457PU-N in sandwich ELISA assays.
Reactivity:	Bovine, Human, Porcine, Rabbit, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Native bovine osteocalcin
Specificity:	This antibody recognizes intact human and bovine osteocalcin in a "2 site" assay and reacts with osteocalcin fragments corresponding to amino acids 15-31 and 20-43 of the native molecule. It does not recognize fragments representing amino acids 1-19 or 7-19 or intact bovine osteocalcin.
Formulation:	Phosphate buffered saline containing 0.09% Sodium Azide (NaN ₃) State: Purified State: Liquid purified IgG
Concentration:	lot specific
Purification:	Affinity chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	bone gamma-carboxyglutamate protein
Database Link:	Entrez Gene 632 Human P02818



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Background:

Osteocalcin (Bone Gla Protein) is a 49 amino acid single chain vitamin K dependent protein (MW 5.8 kDa), made by osteoblasts that is a major component of the non-collagenous bone matrix. Serum osteocalcin is elevated in diseases characterized by increased bone turnover such as osteoporosis, hyperparathyroidism and Pagets disease, and low in conditions associated with low bone turnover such as hypoparathyroidism and growth hormone deficiency.

Synonyms:

Bone Gla protein, BGLAP