

Product datasheet for **AM05457PU-N**

Osteocalcin (BGLAP) Mouse Monoclonal Antibody [Clone ID: 6F9G4E10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	6F9G4E10
Applications:	ELISA
Recommended Dilution:	ELISA. This antibody may be used in combination with AM05459PU-N or AM01190PU-N in Sandwich ELISA assays.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant Human Osteocalcin GST fusion protein
Specificity:	This antibody recognizes intact Human Osteocalcin in a "2 site" assay and reacts with osteocalcin fragments corresponding to amino acids 1-19, 7-19 and 15-31 of the native molecule. It does not recognize fragments representing amino acids 20-42 or intact Bovine Osteocalcin.
Formulation:	Phosphate buffered saline containing 0.09% Sodium Azide as preservative. State: Purified State: Liquid purified IgG fraction.
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