

Rat Osteocalcin (OC) ELISA Kit | OC elisa kit

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CATALOG #
AAA13925

REACTIVITY
Rat

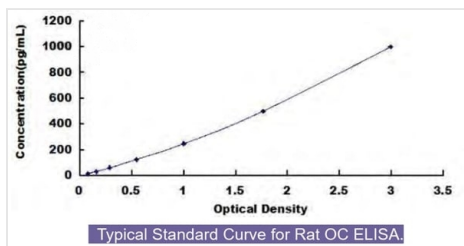
PRODUCT SYNONYMS

Osteocalcin (OC); Rat Osteocalcin (OC) ELISA Kit; BGLAP; OT; BGP; Bone Gla Protein; Bone Gamma-Carboxyglutamate Protein; Gamma-carboxyglutamic acid-containing protein; OC elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of OC. No significant cross-reactivity or interference between OC and analogues was observed.
Sequence Length	99
Assay Type	Quantitative Sandwich
Samples	Rat serum, plasma, tissue homogenates, cell lysates or other biological fluids
Detection Range	15.6-1000pg/mL
Sensitivity	< 5.7pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level OC were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level OC were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for OC elisa kit	Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to OC. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to OC. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain OC, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of OC in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of OC in rat serum, plasma, tissue homogenates, cell lysates or other biological fluids.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	11761543
NCBI GeneID	25295
NCBI Accession #	NP_038200.1
NCBI GenBank Nucleotide #	NM_013414.1
UniProt Accession #	P04640
Molecular Weight	10,927 Da
NCBI Official Full Name	osteocalcin preproprotein
NCBI Official Synonym Full Names	bone gamma-carboxyglutamate protein
NCBI Official Symbol	Bglap
NCBI Official Synonym Symbols	Bgp; Bgpr; Bgpra; Bglap2
NCBI Protein Information	osteocalcin
UniProt Protein Name	Osteocalcin
UniProt Gene Name	Bglap
UniProt Synonym Gene Names	Bglap2; BGP

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.