

Rat Osteocalcin ELISA Kit | OC elisa kit

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CATALOG #
AAA16456

REACTIVITY
Rat

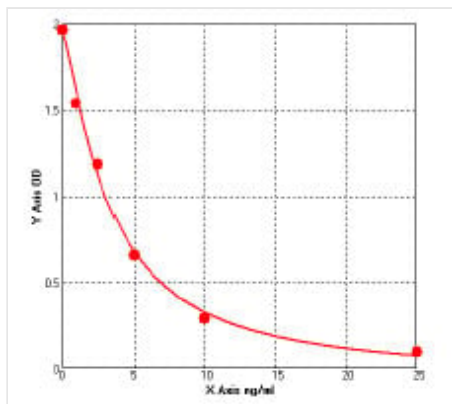
PRODUCT SYNONYMS

Osteocalcin; Rat Osteocalcin ELISA Kit; 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. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between OC and all the analogues, therefore, cross reaction may still exist in some cases.
Assay Type	Quantitative Competitive
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Sensitivity	0.1 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for OC elisa kit	Principle of the Assay: OC ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-OC antibody and an OC-HRP conjugate. The assay sample and buffer are incubated together with OC-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the OC concentration since OC from samples and OC-HRP conjugate compete for the anti-OC antibody binding site. Since the number of sites is limited, as more sites are occupied by OC from the sample, fewer sites are left to bind OC-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The OC concentration in each sample is interpolated from this standard curve. Intended Uses: This OC ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat OC. This ELISA kit for research use only, not for therapeutic or diagnostic applications!
Product Categories/Family for OC elisa kit	Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	40316933
NCBI GeneID	632
NCBI Accession #	NP_954642.1
NCBI GenBank Nucleotide #	NM_199173.4
Molecular Weight	10,963 Da
NCBI Official Full Name	osteocalcin preproprotein
NCBI Official Synonym Full Names	bone gamma-carboxyglutamate (gla) protein
NCBI Official Symbol	BGLAP
NCBI Official Synonym Symbols	OC; BGP; OCN
NCBI Protein Information	osteocalcin; bone Gla protein; gamma-carboxyglutamic acid-containing protein; bone gamma-carboxyglutamate (gla) protein (osteocalcin)
UniProt Protein Name	Osteocalcin
UniProt Gene Name	BGLAP
UniProt Synonym Gene Names	BGP
UniProt Entry Name	OSTCN_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/oc-rat-elisa-kits/osteocalcin/16456>