

Canine Osteocalcin (OC) ELISA Kit | OC elisa kit

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CATALOG #
AAA137500

REACTIVITY
Canine

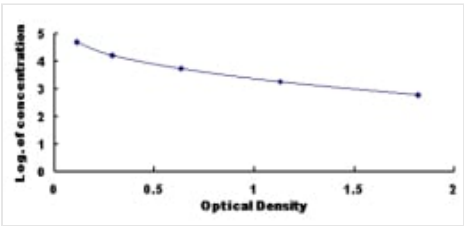
PRODUCT SYNONYMS

Osteocalcin (OC); Canine 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	Canine
Specificity	This assay has high sensitivity and excellent specificity for detection of Osteocalcin (OC). No significant cross-reactivity or interference between Osteocalcin (OC) and analogues was observed.
Sequence Length	100
Samples	Serum, plasma and other biological fluids
Assay Type	Competitive
Detection Range	617.28-50000pg/mL
Sensitivity	Typically less than 244.5pg/mL.
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Osteocalcin (OC) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Osteocalcin (OC) were tested on 3 different plates, 8 replicates in each plate. $CV(\%) = SD/mean \times 100$ Intra-Assay: $CV < 10\%$ Inter-Assay: $CV < 12\%$
Assay Procedure Summary	1. Prepare all reagents, samples and standards; 2. Add 50uL standard or sample to each well. And then add 50uL prepared Detection Reagent A immediately. Shake and mix. Incubate 1 hour at 37 degree C; 3. Aspirate and wash 3 times; 4. Add 100uL prepared Detection Reagent B. Incubate 30 minutes at 37 degree C; 5. Aspirate and wash 5 times; 6. Add 90uL Substrate Solution. Incubate 15-25 minutes at 37 degree C; 7. Add 50uL Stop Solution. Read at 450 nm immediately.
Preparation and Storage	For unopened kit: All the reagents should be kept according to the labels on vials. The Standard, Detection Reagent A, Detection Reagent B and the 96-well strip plate should be stored at -20 degree C upon receipt while the others should be at 4 degree C. For opened kit: When the kit is opened, the remaining reagents still need to be stored according to the above storage condition. Besides, please return the unused wells to the foil pouch containing the desiccant pack, and reseal along entire edge of zip-seal. The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for OC elisa kit	Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to Osteocalcin (OC) has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled Osteocalcin (OC) and unlabeled Osteocalcin (OC) (Standards or samples) with the pre-coated antibody specific to Osteocalcin (OC). After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of Osteocalcin (OC) in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of Osteocalcin (OC) in the sample.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	40316933
NCBI GeneID	632
NCBI Accession #	NP_954642.1
NCBI GenBank Nucleotide #	NM_199173.5
UniProt Accession #	P02818; Q5TCK6
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
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.