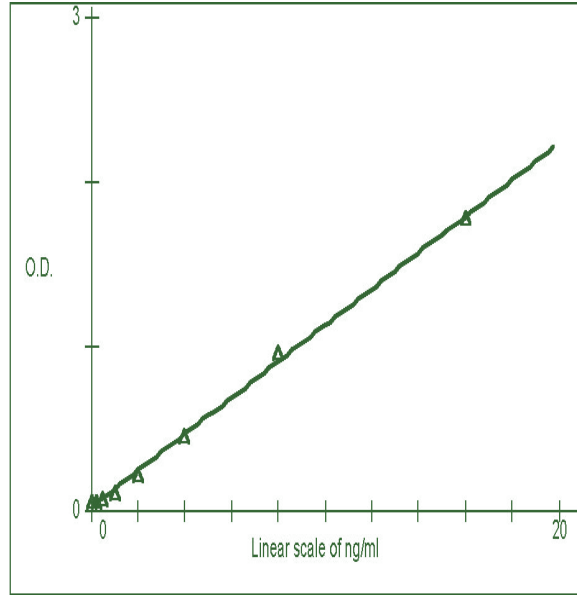


标准曲线参考值

By treatment with hydroxyapatite, OC that binds to bone (active form) will be absorbed with hydroxyapatite. Active form of OC was recovered from hydroxyapatite by eluting with phosphate buffer solution. This ELISA system is useful for detection of active

A450	Gla-OC (ng/ml)
1.783	16
0.968	8
0.462	4
0.231	2
0.125	1
0.085	0.5
0.071	0.25
0.058	0

Sample No.	Serum Gla-OC	HAP treated serum Gla-OC	Gla-OC eluted with phosphate buffer
1	0.469	0.091	0.946
2	0.563	0.000	0.950
3	0.407	0.410	1.332
4	0.955	0.451	2.118
5	2.973	0.000	3.299
6	0.320	0.000	0.810
7	0.330	0.174	0.628
8	1.451	0.255	2.527
9	10.160	0.299	9.336
10	1.636	0.000	2.231
11	20.000	0.000	14.860
12	1.592	0.000	2.331
13	0.265	0.000	0.432
14	0.247	0.306	0.805
15	1.810	0.000	2.363
16	3.459	0.000	5.102
17	1.784	0.000	3.058
18	1.236	0.000	1.609
19	0.524	0.000	0.655
20	0.215	0.000	0.373
21	3.027	0.000	3.590
22	0.181	0.000	0.364
23	0.724	0.000	0.691
24	0.095	0.000	0.287
25	0.554	0.000	0.614
26	0.200	0.000	0.369
27	0.990	0.237	1.614
28	0.113	0.000	0.301



技术指标

检测范围	0.5—16 ng/ml
样本种类和体积	血清、细胞培养上清、细胞裂解物、血浆; 100 ul
血清水平	4.806±3.052 ng/ml
EDTA Plasma	8.933 ± 3.896 ng/ml 假如含量较高需要3-4倍稀释
特异性	近限于检测活性骨钙素
CV	Intra: 3%; inter<4%

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血清活性骨钙素（人）酶联试剂盒 Gla-Type Osteocalcin (Human) ELISA KIT

产品号: SK00760-02 规格: 96T

骨钙素结合钙离子发挥生物学效应依赖于分子内三个嘎玛-羧基化的谷氨酸残基, 因此分子内含有的三个嘎玛-羧基化的谷氨酸残基的骨钙素(Gla-type Osteocalcin), 也称之为活性骨钙素。本试剂盒特别之处在于采用对羧基化的谷氨酸残基的骨钙素有高选择性亲和力的单克隆抗体, 与非羧基化的谷氨酸残基的骨钙素几乎不结合的特点, 可以特异性检测血清活性骨钙素含量。因此它是目前国际市场非常有代表性的活性骨钙素检测试剂。

试剂盒仅限于医学科研使用, 不可以用于临床诊断



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血清活性骨钙素（人）酶联试剂盒

骨代谢生物标示物检测服务和销售

Gla-Type Osteocalcin (Human) ELISA KIT Contents in Kit

- Antibody Coated Micro-plate - 1 plate The plate coated with mouse monoclonal antibody to Gla-OC.
- Detection Antibody - 1 vial (for 11 ml x 1) The vial contains lyophilized horseradish peroxidase conjugated mouse monoclonal antibody to OC. Avoid prolonged exposure to light.
- Standard - 1 vial (16 ng ; for 1 ml x 1) The vial contains lyophilized Gla-OC protein.
- Sample Diluent - 2 vials (11 ml x 2) Each vial contains protein in a buffered solution. Use for Zero standard, and for dilution of the Standard and samples which are above the calibration curve.
- Substrate Solution - 1 vial(12 ml x 1) Each vial contains TMB solution.
- Assay Buffer- 50 ml (3 x concentrated)
- Stop Solution-13 ml
- Seal-3 sheets
- Protocol

Materials required but not provided:

Precision pipettes with disposable tips: 20 and 100 μ l pipettes, 10 - 200 μ l adjustable multiwell pipetter or 100 μ l multiwell pipetter ;Beakers, flasks, cylinders necessary for preparation of reagents. Disposable pipettes and test tubes
-Microtiter plate reader for measurement of absorbance at 450 nm

血清活性骨钙素（人）酶联试剂盒

Prepare Antibody and Standard Solution

Detection Antibody: Dissolve the contents in 11 ml distilled water and mix gently followed by 10 minutes slowly rolling or occasional mixing, avoiding foam formation.

Standard Solution : Rehydrate Standard with 1 ml distilled water. Slowly roll for approximately 10 minutes or let vials to stand and sporadically mix gently.

The Standard Solution contains 16 ng Gla-OC/ml. Prepare a dilution series of 8, 4, 2, 1, 0.5 ng/ml by diluting the Standard Solution with Sample Diluent.

ELISA performance

Sample incubation: Pipette 100 HI sample and standard(Solution 2)into one well within 5 minutes. Mix, seal the microtiter plate (e.g. with a foil) and incubate 2 hours at room temperature (20 - 25AC). Do not incubate serum at 37AC. In case serum is incubated at 37AC, antigen would be denaturalized (proteolysis).

Remove sample solution and wash the wells 3 times with ca. 400 HI of PBS; between the separate washing steps empty out the microtiter plate and vigorously tap onto paper towel, especially after the last washing.

Detection Antibody incubation: Pipette 100 HI of Antibody-POD Conjugate Solution (Solution 1) into one well, mix, seal the microtiter plate (e.g. with a foil) and incubate 1 hour at room temperature (20 - 25AC).

Remove sample solution and wash the wells 4 times as described above (It is especially important after this step to thoroughly empty out the remaining fluid before adding the substrate).

Substrate incubation: Add 100 HI Substrate Solution(vial 5) into each well and incubate at room temperature (20 - 25AC) for 15 minutes.

Add 100 HI Stop Solution(1N H₂SO₄) into each well in same order as for sub-

strate. Tap plate gently to mix.

Measure the absorbance at 450 nm with a plate reader. The absorbance should be read as soon as possible after the completion of the assay. It may be read up to 1 hour after addition of Stop Solution if wells are protected from light at room temperature.

Note: It is important that Stop Solution is added to wells prior to reading at 450 nm. Addition of Stop Solution causes an increase in absorbance of the Substrate Solution and shift in absorbance spectrum.



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