



PicoKine™ ELISA

Catalog number: EK7029

For the quantitation of **Human MUC16** concentrations in
Serum and Plasma

This package insert must be read in its entirety before using this
product. For research use only. Not for use in diagnostic procedures.

Human CA-125 OneStep ELISA Kit

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Introduction

The Bosterbio OneStep ELISA kit is a solid phase direct ELISA sandwich kit. Instead of adding samples detection antibody and ABC-HRP separately, The OneStep ELISA kit allows the user to add standards, samples and controls to wells in one step, along with the incubation buffer. After a simple washing step, an enzyme conjugate reagent is added into each well. After the excess enzyme conjugate is washed out, the substrate is added into each well. The enzyme catalyzes the substrate yielding a blue color ($A_{max} = 370\text{nm}$ and 652nm) that changes to yellow ($A_{max} = 450\text{nm}$) upon addition of a sulfuric or phosphoric acid stop solution. The intensity of color developed is directly proportional to the concentration of target protein in the samples. A standard curve is generated relating color intensity to the concentration of target protein.

Overview

Product Name	Human CA-125 OneStep ELISA Kit
Reactive Species	Human
Size	96wells/kit, with removable strips.
Description	Human CA-125 OneStep ELISA Kit, tested with Serum and Plasma. Format: 96wells/kit, with removable strips.
Detection Range	15-400 U/mL
Storage Instructions	Store the kit at 2°C to 8°C. Keep microwells sealed in a dry bag with desiccants. The reagents are stable until expiration of the kit. Do not expose reagent to heat, sun, or strong light. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)
Uniprot ID	Q8WXI7
Specificity	Natural and recombinant Human MUC16
Cross Reactivity	There is no detectable cross-reactivity.

Kit Components/Materials Provided

Description	Quantity
1. Microwells coated Streptavidin	12x8x1
2. CA125 reference standards: 6 vials (ready to use)	0.5ml
3. Enzyme Conjugate Reagent	12ml

Phone: 888-466-3604

Fax: 925-215-2184

Email: support@bosterbio.com

Web: www.bosterbio.com

4. TMB Reagent (One-Step)	12ml
5. Stop Solution	12ml
6. Wash Concentrate 20x: 1 Bottle	25 ml

Required Materials That Are Not Supplied

1. Distilled or deionized water
2. Precision pipettes
3. Disposable pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection.
4. ELISA reader capable of reading absorbance at 450nm
5. Absorbance paper or paper towel
6. Graph paper

WARNINGS AND PRECAUTIONS

1. For Research Use Only. Not for use in diagnostic procedures.
2. For Laboratory use.
3. Not for Internal or External Use in Humans or Animals.
4. There should be no eating or drinking within work area.
5. Always wear gloves and a protective lab coat.
6. No pipetting should be done by mouth. Handle all specimens and reagents as potentially infectious and biohazardous.
7. Do not add sodium azide to samples as preservative.
8. Do not use external controls containing sodium azide.
9. Use disposable pipette tips to avoid contaminating chromogenic substrate reagent. Discard reagent if it turns blue.
10. Do not pour chromogenic substrate back into container after use.
11. Do not freeze reagents.
12. Do not mix reagents from different kit lot numbers.
13. Keep reagents out of direct sunlight.
14. Handle stop reagent with care, since it is corrosive.
15. Bring all reagents to room temperature.
16. Viscous forensic samples should always be diluted in phosphate buffered saline or distilled water prior to pipetting.
17. Ensure the bag containing the micro-plate strips and desiccant is sealed well, if only a few strips are used.

SPECIMEN COLLECTION AND HANDLING

Serum should be prepared from a whole blood specimen obtained by acceptable medical techniques. This kit is for use with serum samples

without additives only.

REAGENT PREPARATION

1. Prepare 1X Wash buffer by adding the contents of the bottle (25 ml, 20X) to 475 ml of distilled or deionized water. Store at room temperature (20-25°C).

ASSAY PROCEDURE

Bring all specimens and kit reagents to room temperature (20-25°C) and gently mix.

1. Secure the desired number of coated wells in the holder. Dispense 50ul of CA125 standards, specimens, and controls into the appropriate wells.
2. Dispense 100ul Enzyme Conjugate Reagent into each well.
3. Mix gently for 30 seconds. It is very important to have complete mixing in this setup.
4. Incubate for 60 minutes.
5. Remove the incubation mixture by emptying the plate content into a waste container.
6. Remove liquid from all wells. Wash wells three times with 300ul of 1X wash buffer. Blot on absorbance paper or paper towel.
7. Strike the microtiter plate sharply onto absorbent paper or paper towels to remove all residual liquid droplets.
8. Dispense 100ul of TMB Reagent into each well. Gently mix for 10 seconds. Incubate at room temperature, in the dark, for 15 minutes.
9. Stop the reaction by adding 50ul of Stop Solution to each well.
10. Read the absorbance at 450nm (using a reference wavelength of 630nm) with a microtiter plate absorbance reader within 15 minutes.

CALCULATION OF RESULTS

1. Calculate the average absorbance values (A450) for each set of reference standards, control, and samples.
2. Construct a standard curve by plotting the mean absorbance obtained from each reference standard standard against its concentration in U/ml on linear graph paper, with absorbance on the vertical (y) axis and concentration on the horizontal (x) axis.
3. Using the mean absorbance value for each sample, determine the corresponding concentration
2. To construct the standard curve, plot the absorbance for ACT standards (vertical

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