HSP27 ELISA Kit

Catalog number: EK7110

For detection of multiple analytes using one single assay.

This package insert must be read in its entirety before using this product.

For research use only. Not for use in diagnostic procedures.

BOSTER
antibody and ELISA experts

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Catalog Number: EK7110

Size: 96wells/kit

Sample Type: Cell lysates, Plasma, Serum, Tissue

Sensitivity: 0.04 ng/ml

Assay Range: 0.2 - 13 ng/ml

Storage: Store at 4°C.

Introduction

Boster's ELISA Kit is for the detection of free, unbound human Hsp27 in cell lysates, tissue extracts, and human serum samples. The latter matrix has significant quantities of Hsp27-complexing components which can obscure the detection of Hsp27 by this assay. Each kit contains sufficient components to quantitate the Hsp27 concentration in up to 40 samples, tested in duplicate.

Kit Components

Description	Quantity
Anti-Hsp27 Immunoassay Plate	1 Plate
5X Hsp27 Extraction Reagent	1 vial/10 ml
Recombinant Hsp27 Standard	2 vials
Standard and Sample Diluent	1 vial/ 50 ml
10X Wash Buffer Concentrate	1 vial/100 ml
Anti-Hsp27 Biotinylated Antibody Concentrate	1 vial/150 µl
Anti-Hsp27 Biotinylated Antibody Diluent	1 vial/ 13 ml
Streptavidin: HRP Concentrate	1 vial/150 µl
Streptavidin: HRP Diluent	1 vial/ 13 ml
TMB Substrate	1 vial/ 13 ml
Stop Solution	1 vial/ 13 ml

Materials Required, but Not Provided

1. Ultra pure water.

2. Additional reagents and materials for cell lysate and tissue extract preparation, including protease inhibitors.

3. Precision pipettors, with disposable plastic tips.

4. Polypropylene or polyethylene tubes to prepare samples – do not use polystyrene, polycarbonate or glass tubes.

5. A container to prepare 1X Wash Buffer.

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6. A wash bottle or an automated 96-well plate washer.

7. Disposable reagent reservoirs.

8. A standard microtiter plate reader for measuring absorbance at 450 nm.

9. Adhesive plate sealers.

Assay Overview

1. Prepare Standard and samples in Standard and Sample Diluent.

2. Add 100 µL of Standard or sample to appropriate wells.

3. Cover plate with Plate Sealer and incubate at room temperature (20-25°C) for 1 hour.

4. Wash plate four times with 1X Wash Buffer.

5. Add 100 µL of Biotinylated Antibody Working Solution to each well.

6. Cover plate with Plate Sealer and incubate at room temperature for 1 hour.

7. Wash plate four times with 1X Wash Buffer.

8. Add 100 µL of Streptavidin-HRP Working Solution to each well.

9. Cover plate with Plate Sealer and incubate at room temperature for 30 minutes.

10. Wash plate four times with 1X Wash Buffer.

11. Add 100 µL of TMB Substrate to each well.

12. Develop the plate in the dark at room temperature for 30 minutes.

13. Stop reaction by adding 100 µL of Stop Solution to each well.

14. Measure absorbance on a plate reader at 450 nm.

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