



# PicoKine™ ELISA

**Catalog number: EK7105**

For the quantitation of **Human CRYAB** concentrations in  
Cell lysates, Serum, Tissue

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

## Alpha B Crystallin ELISA Kit

Catalog Number: EK7105

### Introduction

Boster's ELISA Kit is for the detection of human Alpha B Crystallin in cell lysates, tissue extracts, and serum samples. Each kit contains sufficient components to quantitate the Alpha B Crystallin concentration in up to 40 samples, tested in duplicate.

### Overview

<b>Product Name</b>	Alpha B Crystallin ELISA Kit
<b>Reactive Species</b>	Human
<b>Size</b>	96wells/kit, with removable strips.
<b>Description</b>	Colorimetric detection of Alpha B Crystallin. 96wells/kit, with removable strips.
<b>Sensitivity</b>	0.009 ng/ml *The sensitivity or the minimum detectable dose (MDD) is the lower limit of target protein that can be detected by the kit. It is determined by adding two standard deviations to the mean O.D. value of twenty (20) blank wells and calculating the corresponding concentration.
<b>Detection Range</b>	0.352 - 22.5 ng/ml
<b>Storage Instructions</b>	Store at 4°C.
<b>Uniprot ID</b>	P02511
<b>Specificity</b>	Natural and recombinant Human CRYAB
<b>Cross Reactivity</b>	There is no detectable cross-reactivity.

### Kit Components/Materials Provided

Description	Quantity
Anti-Alpha B Crystallin Immunoassay Plate	1 Plate
5X Alpha B Crystallin Extraction Reagent	1 vial/10 ml
Recombinant Alpha B Crystallin Standard	2 vials
Standard and Sample Diluent	1 vial/ 50 ml
10X Wash Buffer Concentrate	1 vial/100 ml
Anti-Alpha B Crystallin Biotinylated Antibody Concentrate	1 vial/150 µl

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Anti-Alpha B Crystallin Biotinylated Antibody Diluent	1 vial/ 13 ml
Streptavidin: HRP Concentrate	1 vial/150 $\mu$ l
Streptavidin: HRP Diluent	1 vial/ 13 ml
TMB Substrate	1 vial/ 13 ml
Stop Solution	1 vial/ 13 ml

## Required Materials That Are Not Supplied

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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.
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

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1. Prepare Standard and samples in Standard and Sample Diluent.
2. Add 100  $\mu$ L 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  $\mu$ L 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  $\mu$ L 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  $\mu$ L 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  $\mu$ L of Stop Solution to each well.
14. Measure absorbance on a plate reader at 450 nm.

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