

## Human CREB (Cyclic AMP Response Element Binding Protein) ELISA Kit | CREB elisa kit

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CATALOG #  
**AAA277239**

REACTIVITY  
**Human**

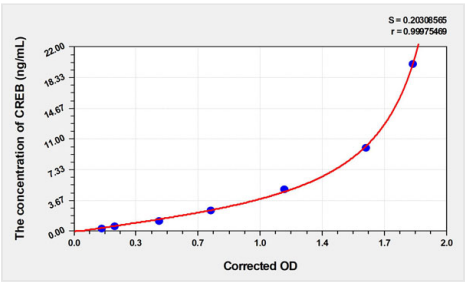
### PRODUCT SYNONYMS

CREB (Cyclic AMP Response Element Binding Protein); Human CREB (Cyclic AMP Response Element Binding Protein) ELISA Kit; CREB; active transcription factor CREB; cAMP responsive element binding protein 1; cAMP-response element-binding protein-1; cAMP-responsive element-binding protein 1; CREB-1; cyclic AMP-responsive element-binding protein 1; MGC9284; transactivator protein; CREB elisa kit

### PRODUCT SPECIFICATIONS

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| Reactivity      | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Assay Type      | Sandwich                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Samples         | Tissue homogenates and other biological fluids.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Detection Range | 0.32-20ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Sensitivity     | 0.14ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Standard        | 20ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Assay Length    | 3.5h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Precision       | Intra-assay Precision (Precision within an assay): CV%<8%<br>Three samples of known concentration were tested twenty times on one plate to assess intra-assay precision.<br>Inter-assay Precision (Precision between assays): CV%<10%<br>Three samples of known concentration were tested in forty separate assays to assess inter-assay precision.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Test Principle  | The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Cyclic AMP Response Element Binding Protein (CREB). Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Cyclic AMP Response Element Binding Protein (CREB). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Cyclic AMP Response Element Binding Protein (CREB), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 10 nm. The concentration of Cyclic AMP Response Element Binding Protein (CREB) in the samples is then determined by comparing the OD of the samples to the standard curve. |
| Standard Curve  | Matrices listed below were spiked with certain level of recombinant CREB and the recovery rates were calculated by comparing the measured value to the expected amount of CREB in samples. Matrix Recovery range Average serum (n=5) 78-91% EDTA plasma (n=5) 93-107% Heparin plasma (n=5) 87-101% 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Recovery Rate   | The linearity of the kit was assayed by testing samples spiked with appropriate concentration of CREB and their serial dilutions. The results were demonstrated by the percentage of calculated concentration to the expected. Matrix 1: 21: 41: 81: 16 serum (n=5) 87-98% 92-105% 83-92% 85-92% EDTA plasma (n=5) 88-92% 86-97% 85-97% 85-94% Heparin plasma (n=5) 92-101% 85-105% 87-98% 90-98%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Product Categories/Family for CREB  
elisa kit

Epigenetics and Nuclear Signaling; Immunology; Neuroscience

**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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/creb-cyclic-amp-response-element-binding-protein/277239>