

## Human Alkyl hydroperoxide reductase ELISA Kit | AhpC elisa kit

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CATALOG #  
**AAA84920**

REACTIVITY  
**Human**

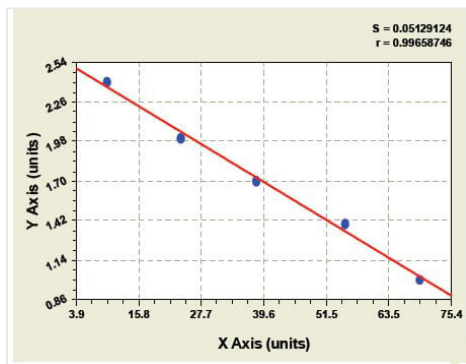
### PRODUCT SYNONYMS

Alkyl hydroperoxide reductase; Human Alkyl hydroperoxide reductase ELISA Kit; AhpC elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                  |
| Samples                 | Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate                                                                                                             |
| Assay Type              | Competitive                                                                                                                                                                            |
| Detection Range         | 2.5-50ng/mL                                                                                                                                                                            |
| Sensitivity             | 0.1ng/mL                                                                                                                                                                               |
| Intended Uses           | This AhpC ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human AhpC. This ELISA kit for research use only, not for therapeutic applications! |
| Preparation and Storage | Store all reagents at 2-8 degree C.                                                                                                                                                    |

### IMAGES



Standard Curve (Sample)

### ADDITIONAL INFORMATION

#### Related Product Information for AhpC elisa kit

**Principle of the assay:** AhpC ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-AhpC antibody and an AhpC-HRP conjugate. The assay sample and buffer are incubated together with AhpC-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the AhpC concentration since AhpC from samples and AhpC-HRP conjugate compete for the anti-AhpC antibody binding site. Since the number of sites is limited, as more sites are occupied by AhpC from the sample, fewer sites are left to bind AhpC-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The AhpC concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

|                           |                                                                    |
|---------------------------|--------------------------------------------------------------------|
| NCBI GI #                 | 494952098                                                          |
| NCBI Accession #          | WP_007678126.1                                                     |
| NCBI GenBank Nucleotide # | WP_007678126.1                                                     |
| Molecular Weight          | 19,652 Da                                                          |
| NCBI Official Full Name   | alkyl hydroperoxide reductase                                      |
| UniProt Protein Name      | Periplasmic protein thiol:disulfide oxidoreductase, DsbE subfamily |
| UniProt Entry Name        | J3ANF2_9SPHN                                                       |

**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://www.aaabiotech.com/ahpc-human-elisa-kits/alkyl-hydroperoxide-reductase/84920>