**Overview**

**Product name**  
Human Myoglobin ELISA Kit

**Detection method**  
Colorimetric

**Sample type**  
Serum

**Assay type**  
Sandwich (quantitative)

**Sensitivity**  
= 5 ng/ml

**Range**  
5 ng/ml - 1000 ng/ml

**Recovery**  
102.8 %

<table>
<thead>
<tr>
<th>Sample type</th>
<th>Average %</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serum</td>
<td>102.8</td>
<td>39ng/ml - 780ng/ml</td>
</tr>
</tbody>
</table>

**Assay duration**  
Multiple steps standard assay

**Species reactivity**  
Reacts with: Human

**Product overview**  
Abcam’s Myoglobin *in vitro* ELISA (Enzyme-Linked Immunosorbent Assay) kit is designed for the accurate quantitative measurement of Myoglobin in Human serum.

A 96-well plate has been precoated with anti-Myoglobin antibodies. Samples and standards and are added to the wells, where Myoglobin in the sample and standards binds to the precoated antibody. Added anti-Myoglobin HRP conjugate binds to this antibody-Myoglobin complex. After incubation, the wells are washed to remove unbound material and TMB substrate is then added which is catalyzed by HRP to produce blue coloration. The reaction is terminated by addition of Stop Solution which stops the color development and produces a color change from blue to yellow. The intensity of signal is directly proportional to the amount of Myoglobin in the sample and the intensity is measured at 450 nm.

**Platform**  
Microplate

**Properties**

**Storage instructions**  
Store at +4°C. Please refer to protocols.
**Function**
Serves as a reserve supply of oxygen and facilitates the movement of oxygen within muscles.

**Sequence similarities**
Belongs to the globin family.

### Components

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anti-Myoglobin Coated Microplate (12 x 8 wells)</td>
<td>1 unit</td>
</tr>
<tr>
<td>Anti-Myoglobin HRP Conjugate</td>
<td>1 x 22ml</td>
</tr>
<tr>
<td>Myoglobin Standard 0 - 0 ng/mL</td>
<td>1 x 0.5ml</td>
</tr>
<tr>
<td>Myoglobin Standard 1 - 25 ng/mL</td>
<td>1 x 0.5ml</td>
</tr>
<tr>
<td>Myoglobin Standard 2 - 100 ng/mL</td>
<td>1 x 0.5ml</td>
</tr>
<tr>
<td>Myoglobin Standard 3 - 250 ng/mL</td>
<td>1 x 0.5ml</td>
</tr>
<tr>
<td>Myoglobin Standard 4 - 500 ng/mL</td>
<td>1 x 0.5ml</td>
</tr>
<tr>
<td>Myoglobin Standard 5 - 1,000 ng/mL</td>
<td>1 x 0.5ml</td>
</tr>
<tr>
<td>Sample Diluent</td>
<td>1 x 25ml</td>
</tr>
<tr>
<td>Stop Solution</td>
<td>1 x 11ml</td>
</tr>
<tr>
<td>TMB Reagent</td>
<td>1 x 11ml</td>
</tr>
</tbody>
</table>

### Images

Representative standard curve using ab108652

Typical Standard Curve

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

**Our Abpromise to you: Quality guaranteed and expert technical support**

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
• We provide support in Chinese, English, French, German, Japanese and Spanish
• Extensive multi-media technical resources to help you
• We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

• Guarantee only valid for products bought direct from Abcam or one of our authorized distributors