# Product datasheet

## Anti-Lipoic Acid antibody ab58724

### 12 References

<table>
<thead>
<tr>
<th>Overview</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product name</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
</tr>
<tr>
<td><strong>Host species</strong></td>
</tr>
<tr>
<td><strong>Specificity</strong></td>
</tr>
</tbody>
</table>

**Tested applications**: Suitable for: WB, IHC-Fr, ELISA, IHC-P

**Species reactivity**: Reacts with: Species independent

**Immunogen**: Lipoic acid conjugated to KLH

**General notes**

Reproducibility is key to advancing scientific discovery and accelerating scientists’ next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been "predicted to work with," however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

<table>
<thead>
<tr>
<th>Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form</strong></td>
</tr>
<tr>
<td><strong>Storage instructions</strong></td>
</tr>
</tbody>
</table>
Storage buffer  
**pH:** 7.50  
**Constituents:** Whole serum, 50% Glycerol

Purity  
Whole antiserum

Clonality  
Polyclonal

Isotype  
IgG

Applications

Our **Abpromise guarantee** covers the use of **ab58724** in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IHC-Fr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELISA</td>
<td></td>
<td></td>
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<tr>
<td>IHC-P</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Application notes**  
ELISA: 1/500 - 1/1000.  
IHC-Fr: 1/50 - 1/500.  
IHC-P: 1/50 - 1/500.  
WB: 1/1000 - 1/10000.

Not yet tested in other applications. Optimal dilutions/concentrations should be determined by the end user.

Target

Relevance  
Lipoic acid is a sulfur-containing substance that is readily converted to and from its reduced form, dihydrolipoic acid. It acts as a coenzyme in reactions that occur in the Krebs cycle; specifically it is involved in the decarboxylation of pyruvate and some other alpha-keto acids. Protein-bound lipoic acids such as E2 subunits, a-ketoglutarate dehydrogenase, or pyruvate dehydrogenase have been shown to be highly susceptible to free radical-derived oxidative modification. Lipoic acid is able to deactivate both fat and water soluble free radicals and thereby protect both lipoproteins and membranes; no other anti-oxidant can do this. It has also shown great promise in the treatment of HIV and in diabetes.

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
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• 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.

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