


## Product datasheet

# Anti-Glutathione Peroxidase 4 antibody ab40993

[7 References](#) [1 Image](#)

### Overview

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<b>Product name</b>	Anti-Glutathione Peroxidase 4 antibody
<b>Description</b>	Rabbit polyclonal to Glutathione Peroxidase 4
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB <b>Unsuitable for:</b> ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> a wide range of other species 
<b>Immunogen</b>	Synthetic peptide conjugated to KLH derived from within residues 50 - 150 of Human Glutathione Peroxidase 4. Read Abcam's proprietary immunogen policy (Peptide available as <a href="#">ab41785</a> .)
<b>Positive control</b>	ab40993 gave a positive signal in the following human tissue lysates: Brain, Testis, Liver, Heart, Skeletal Muscle, Kidney, Colon, Small Intestine (data not shown).
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>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, along with publications, customer reviews and Q&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab40993 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>WB</b>		Use a concentration of 1 µg/ml. Detects a band of approximately 22 kDa (predicted molecular weight: 22 kDa).

**Application notes** Is unsuitable for ICC/IF.

## Target

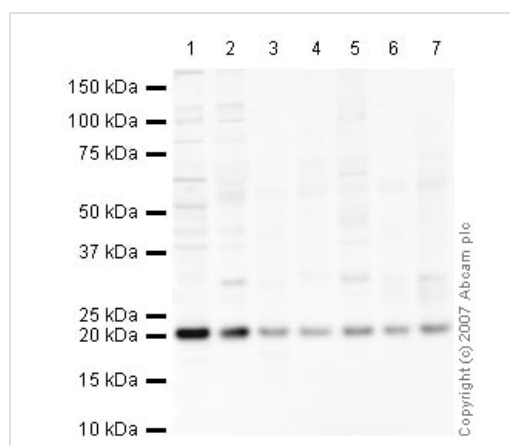
**Function** Protects cells against membrane lipid peroxidation and cell death. Required for normal sperm development and male fertility. Could play a major role in protecting mammals from the toxicity of ingested lipid hydroperoxides. Essential for embryonic development. Protects from radiation and oxidative damage.

**Tissue specificity** Present primarily in testis.

**Sequence similarities** Belongs to the glutathione peroxidase family.

**Cellular localization** Mitochondrion. Cytoplasm.

## Images



Western blot - Anti-Glutathione Peroxidase 4 antibody (ab40993)

**All lanes :** Anti-Glutathione Peroxidase 4 antibody (ab40993) at 1 µg/ml

**Lane 1 :** Human brain tissue lysate - total protein ([ab29466](#))

**Lane 2 :** Human testis tissue lysate - total protein ([ab30257](#))

**Lane 3 :** Human liver tissue lysate - total protein ([ab29889](#))

**Lane 4 :** Human heart tissue lysate - total protein ([ab29431](#))

**Lane 5 :** Human skeletal muscle tissue lysate - total protein ([ab29330](#))

**Lane 6 :** Human kidney tissue lysate - total protein ([ab30203](#))

**Lane 7 :** Human colon tissue lysate - total protein ([ab30051](#))

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at

1/10000 dilution

Performed under reducing conditions.

**Predicted band size:** 22 kDa

**Observed band size:** 22 kDa

**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**

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- We provide support in Chinese, English, French, German, Japanese and Spanish
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