


# Anti-Glutathione Peroxidase 4 antibody ab41787

敲除验证

**32 References**   **2 图像**

### 概述

产品名称	Anti-Glutathione Peroxidase 4抗体
描述	兔多克隆抗体to Glutathione Peroxidase 4
宿主	Rabbit
经测试应用	适用于: WB
种属反应性	与反应: Human 预测可用于: a wide range of other species 
免疫原	Synthetic peptide corresponding to Human Glutathione Peroxidase 4 aa 150 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin. (Peptide available as <b>ab41786</b> )
阳性对照	WB:: Brain, Testis, Heart, Skeletal Muscle, Kidney, Colon tissue lysates; HeLa and Jurkat cell lysates.
常规说明	<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>

### 性能

形式	Liquid
存放说明	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.
存储溶液	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.
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee      **Abpromise™**承诺保证使用ab41787于以下的经测试应用

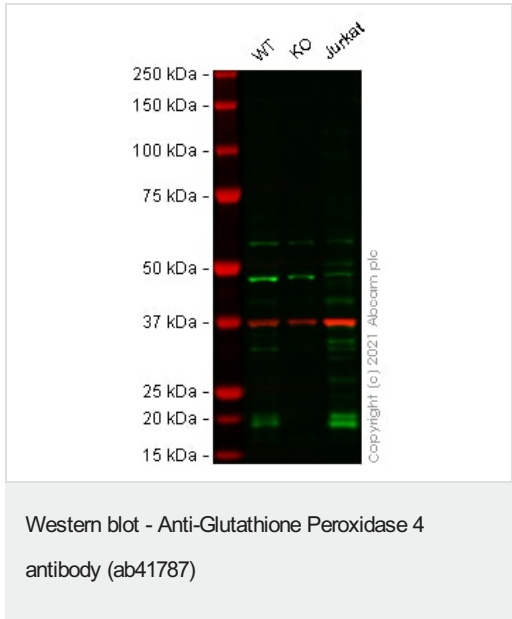
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 22 kDa (predicted molecular weight: 22 kDa). Blocking: we recommend using 3% milk block for 1 hour at room temperature. This step may need to be optimized for your experiments.

靶标

功能	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.
组织特异性	Present primarily in testis.
序列相似性	Belongs to the glutathione peroxidase family.
细胞定位	Mitochondrion. Cytoplasm.

图片



**All lanes :** Anti-Glutathione Peroxidase 4 antibody (ab41787) at 1 µg/ml

**Lane 1 :** Wild-type HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

**Lane 2 :** GPX4 knockout HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

**Lane 3 :** Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate

Lysates/proteins at 20 µg per lane.

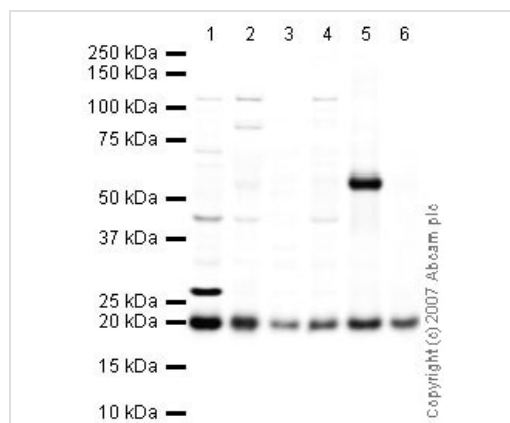
Performed under reducing conditions.

**Predicted band size:** 22 kDa

**Observed band size:** 20 kDa

**Lanes 1 - 3:** Merged signal (red and green). Green - ab41787 observed at 20 kDa. Red - loading control **ab8245** (Mouse anti-GAPDH antibody [6C5]) observed at 37 kDa.

ab41787 was shown to react with Glutathione Peroxidase 4 in wild-type HeLa cells in Western blot with loss of signal observed in GPX4 knockout cell line **ab262509** (knockout cell lysate **ab263935**). Wild-type HeLa and GPX4 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween®) before incubation with ab41787 and **ab8245** (Mouse anti-GAPDH antibody [6C5]) overnight at 4 °C at 1 µg/ml and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging.



Western blot - Anti-Glutathione Peroxidase 4 antibody (ab41787)

**All lanes :** Anti-Glutathione Peroxidase 4 antibody (ab41787) 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 heart tissue lysate - total protein (**ab29431**)

**Lane 4 :** Human skeletal muscle tissue lysate - total protein (**ab29330**)

**Lane 5 :** Human kidney tissue lysate - total protein (**ab30203**)

**Lane 6 :** 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

**Additional bands at:** 27 kDa, 60 kDa. We are unsure as to the identity of these extra bands.

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

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