


# Anti-Glutathione Peroxidase 4 antibody ab41787

KO 評価済

32 References 画像数 2

### 製品の概要

製品名	Anti-Glutathione Peroxidase 4 antibody
製品の詳細	Rabbit polyclonal to Glutathione Peroxidase 4
由来種	Rabbit
アプリケーション	適用あり: WB
種交差性	交差種: Human 交差が予測される動物種: 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 <a href="#">ab41786</a> )
ポジティブ・コントロール	WB:: Brain, Testis, Heart, Skeletal Muscle, Kidney, Colon tissue lysates; HeLa and Jurkat cell lysates.
特記事項	<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>

### 製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	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.

#### 精製度

Immunogen affinity purified

#### ポリ/モノ

ポリクローナル

#### アイソタイプ

IgG

#### アプリケーション

##### The Abpromise guarantee

**Abpromise保証は、次のテスト済みアプリケーションにおけるab41787の使用に適用されます**

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご確認ください。

アプリケーション	Abreviews	特記事項
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.

#### ターゲット情報

##### 機能

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.

##### 組織特異性

Present primarily in testis.

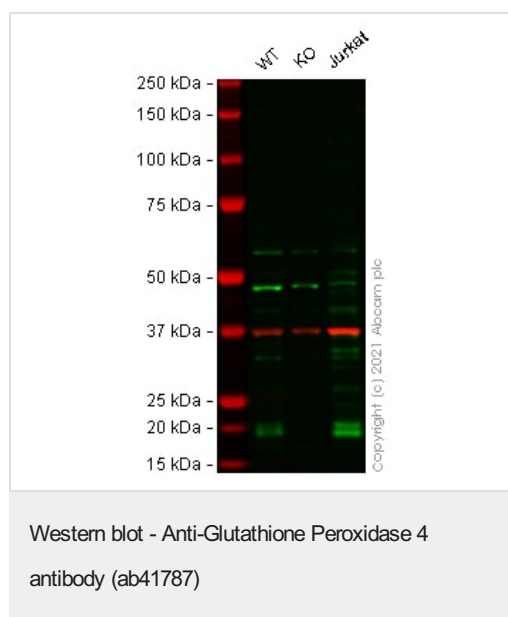
##### 配列類似性

Belongs to the glutathione peroxidase family.

##### 細胞内局在

Mitochondrion. Cytoplasm.

#### 画像



**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.

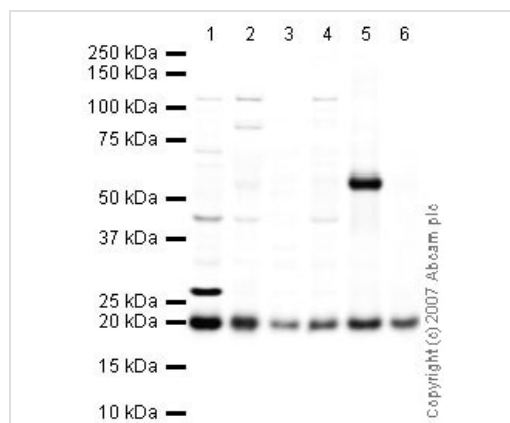
Performed under reducing conditions.

**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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