

Product datasheet

Anti-Glutathione Peroxidase 4 antibody [EPNCIR144] ab125066

RabMAb

★★★★★ 2 Abreviews 11 References 9 图像

概述

产品名称	Anti-Glutathione Peroxidase 4 抗体[EPNCIR144]
描述	兔单克隆抗体[EPNCIR144] to Glutathione Peroxidase 4
经测试应用	适用于: Flow Cyt, WB, IHC-P, ICC/IF
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) within Mouse Glutathione Peroxidase 4. The exact sequence is proprietary. Database link: O70325
阳性对照	WB: Mouse testis, rat testis, human testis, human fetal liver, and human seminoma tissue lysates, LnCaP, Jurkat and HepG2 cell lysates. ICC/IF: HEK293 cells. IHC-P: Human kidney and stomach tissues. Flow Cyt: HeLa cells.
常规说明	This antibody was developed as part of a collaboration between Epitomics, the National Cancer Institute's Center for Cancer Research and the lab of Dolph Hatfield. View antibodies from NCI Center for Cancer Research Collaboration. Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team. This product is a recombinant rabbit monoclonal antibody.

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. Stable for 12 months at -20°C.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 0.05% BSA, 59% PBS

纯度	Protein A purified
克隆	单克隆
克隆编号	EPNCIR144
同种型	IgG

应用

Our [Abpromise guarantee](#) covers the use of **ab125066** in the following tested applications.

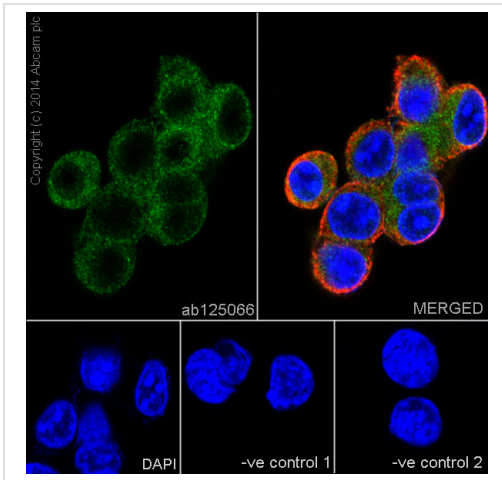
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
Flow Cyt		1/400.
WB	★★★★★	1/1000 - 1/10000. Detects a band of approximately 17 kDa (predicted molecular weight: 22 kDa).
IHC-P		1/50 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See protocols (link: http://www.abcam.com/protocols/ihc-antigen-retrieval-protocol).
ICC/IF	★★★★★	1/200.

靶标

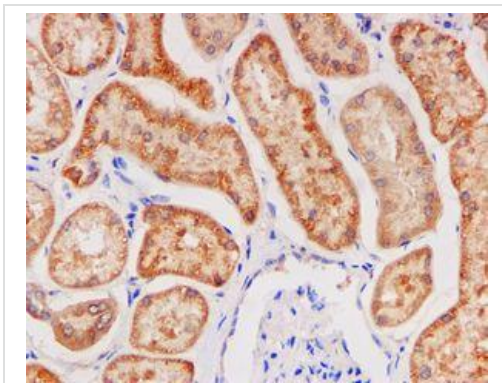
功能	Protects cells against membrane lipid peroxidation and cell death. Required for normal sperm development and male fertility. Could play a major role in protecting mammals from the toxicity of ingested lipid hydroperoxides. Essential for embryonic development. Protects from radiation and oxidative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



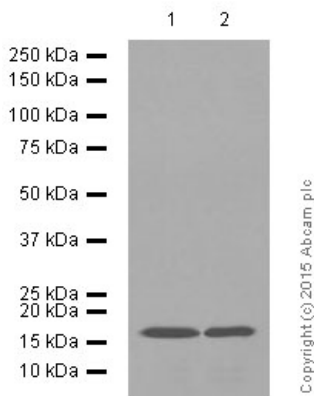
Immunocytochemistry/ Immunofluorescence - Anti-Glutathione Peroxidase 4 antibody [EPNCIR144] (ab125066)

Immunofluorescence staining of HEK293 cells with purified ab125066 at a working dilution of 1/200, counter-stained with DAPI. The secondary antibody was Alexa Fluor[®] 488 goat anti-rabbit (ab150077), used at a dilution of 1/1000. ab7291, a mouse anti-tubulin antibody (1/1000), was used to stain tubulin along with ab150120 (Alexa Fluor[®] 594 goat anti-mouse, 1/1000), shown in the top right hand panel. The cells were fixed in 4% PFA and permeabilized using 0.1% Triton X 100. The negative controls are shown in bottom middle and right hand panels - for negative control 1, purified ab125066 was used at a dilution of 1/500 followed by an Alexa Fluor[®] 594 goat anti-mouse antibody (ab150120) at a dilution of 1/500. For negative control 2, ab7291 (mouse anti-tubulin) was used at a dilution of 1/500 followed by an Alexa Fluor[®] 488 goat anti-rabbit antibody (ab150077) at a dilution of 1/400.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Glutathione Peroxidase 4 antibody [EPNCIR144] (ab125066)

Unpurified ab125066, at a 1/100 dilution, staining Glutathione Peroxidase 4 in paraffin-embedded Human kidney tissue by immunohistochemistry.



Western blot - Anti-Glutathione Peroxidase 4 antibody [EPNCIR144] (ab125066)

All lanes : Anti-Glutathione Peroxidase 4 antibody [EPNCIR144] (ab125066) at 1/20000 dilution (purified)

Lane 1 : mouse testis lysate

Lane 2 : rat testis lysate

Lysates/proteins at 20 µg per lane.

Secondary

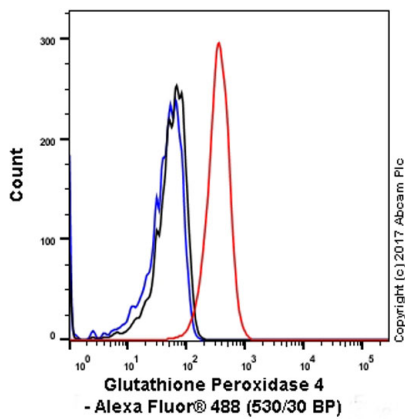
HRP goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size : 22 kDa

Observed band size : 17 kDa

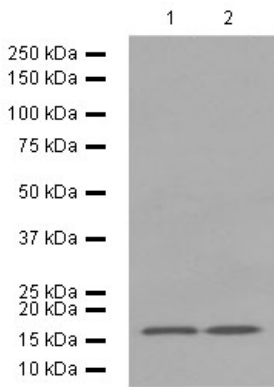
Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Flow Cytometry - Anti-Glutathione Peroxidase 4 antibody [EPNCIR144] (ab125066)

Flow cytometry analysis of HeLa (human cervix adenocarcinoma) cells labeling Glutathione Peroxidase 4 (red) with ab125066 at a 1/400 dilution. Cells were fixed with 4% paraformaldehyde and permeabilized with 90% methanol. A goat anti-rabbit IgG (Alexa Fluor® 488) (ab150077) was used as the secondary antibody at a 1/2000 dilution. Black - Rabbit monoclonal IgG (ab172730). Blue (unlabeled control) - Cells without incubation with the primary and secondary antibodies.



Western blot - Anti-Glutathione Peroxidase 4 antibody [EPNCIR144] (ab125066)

All lanes : Anti-Glutathione Peroxidase 4 antibody [EPNCIR144] (ab125066) at 1/20000 dilution (purified)

Lane 1 : human fetal liver lysate

Lane 2 : Jurkat lysate

Secondary

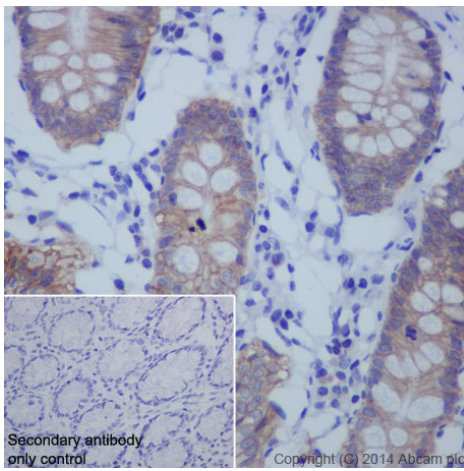
HRP goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size : 22 kDa

Observed band size : 17 kDa

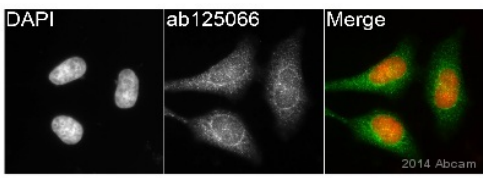
Blocking buffer: 5% NFDm/TBST

Dilution buffer: 5% NFDm/TBST



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Glutathione Peroxidase 4 antibody [EPNCIR144] (ab125066)

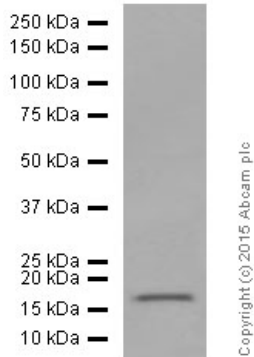
Immunohistochemical staining of paraffin embedded human stomach with purified ab125066 at a working dilution of 1/50. The secondary antibody used is HRP goat anti-rabbit IgG H&L (ab97051) at 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.



Immunocytochemistry/ Immunofluorescence - Anti-Glutathione Peroxidase 4 antibody [EPNCIR144] (ab125066)

This image is courtesy of an Abreview submitted by Kirk McManus

Unpurified ab125066 staining Glutathione Peroxidase 4 in the HeLa cell line from Human cervical cancer by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with methanol. Samples were incubated with primary antibody (1/500 in PBS) for 1 hour at 22°C. [ab150081](#) an Alexa Fluor®488-conjugated Goat anti-rabbit IgG polyclonal (1/200) was used as the secondary antibody. Nuclear staining was carried out with DAPI.



Western blot - Anti-Glutathione Peroxidase 4 antibody [EPNCIR144] (ab125066)

Anti-Glutathione Peroxidase 4 antibody [EPNCIR144] (ab125066) at 1/5000 dilution (purified) + HepG2 cell lysate at 20 µg

Secondary

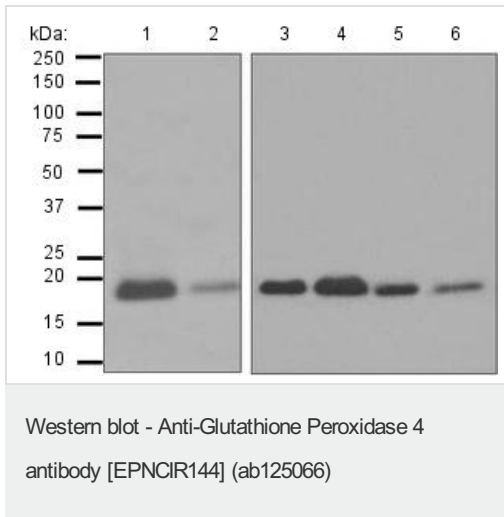
HRP goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size : 22 kDa

Observed band size : 17 kDa

Blocking buffer: 5% NFDm/TBST

Dilution buffer: 5% NFDm/TBST



All lanes : Anti-Glutathione Peroxidase 4 antibody [EPNCIR144] (ab125066) at 1/1000 dilution (unpurified)

Lane 1 : Human testis lysate

Lane 2 : Human seminoma lysate

Lane 3 : LnCaP cell lysate

Lane 4 : Human fetal liver lysate

Lane 5 : Jurkat cell lysate

Lane 6 : HepG2 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

Goat anti-Rabbit HRP at 1/2000 dilution

Developed using the ECL technique

Predicted band size : 22 kDa

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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 <http://www.abcam.cn/abpromise> or contact our technical team.

Terms and conditions

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