

**GSR Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP12046b****Specification**

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**GSR Antibody (C-term) - Product Information**

Application	IF, WB, IHC-P, FC,E
Primary Accession	<a href="#">P00390</a>
Other Accession	<a href="#">NP_000628.2</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	380-408

**GSR Antibody (C-term) - Additional Information****Gene ID** 2936**Other Names**

Glutathione reductase, mitochondrial, GR, GRase, GSR, GLUR, GRD1

**Target/Specificity**

This GSR antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 380-408 amino acids from the C-terminal region of human GSR.

**Dilution**

IF~~1:10~50  
WB~~1:1000  
IHC-P~~1:10~50  
FC~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

GSR Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**GSR Antibody (C-term) - Protein Information****Name** GSR

**Synonyms** GLUR, GRD1

**Function** Maintains high levels of reduced glutathione in the cytosol.

**Cellular Location**

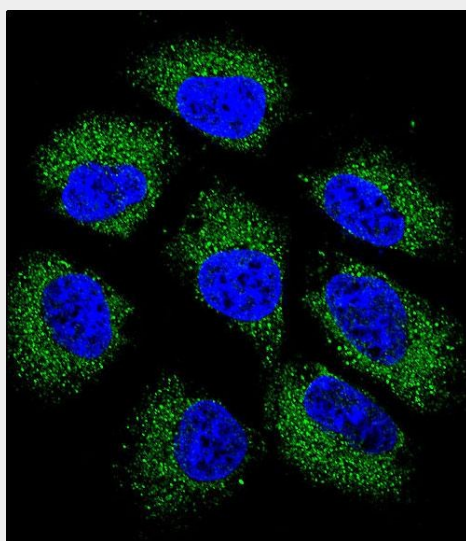
[Isoform Mitochondrial]: Mitochondrion.

**GSR Antibody (C-term) - Protocols**

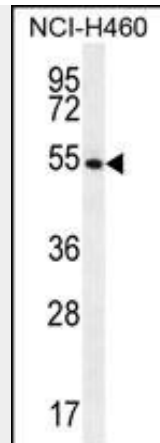
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

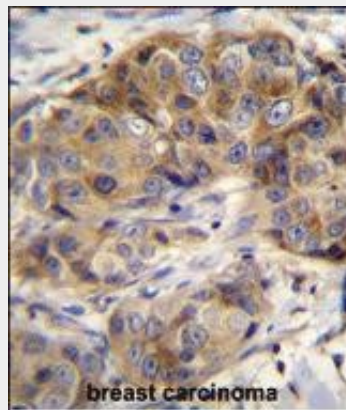
**GSR Antibody (C-term) - Images**



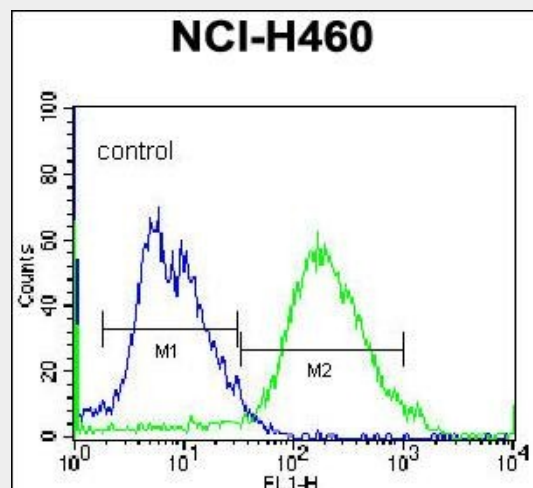
Confocal immunofluorescent analysis of GSR Antibody (C-term)(Cat#AP12046b) with NCI-H460 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



GSR Antibody (C-term) (Cat. #AP12046b) western blot analysis in NCI-H460 cell line lysates (35ug/lane). This demonstrates the GSR antibody detected the GSR protein (arrow).



GSR Antibody (C-term) (Cat. #AP12046b) immunohistochemistry analysis in formalin fixed and paraffin embedded human breast carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of GSR Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



GSR Antibody (C-term) (Cat. #AP12046b) flow cytometric analysis of NCI-H460 cells (right histogram) compared to a negative control -Rabbit IgG alone (left histogram). FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.

#### **GSR Antibody (C-term) - Background**

This gene encodes a member of the class-I pyridine nucleotide-disulfide oxidoreductase family. This enzyme is a homodimeric flavoprotein. It is a central enzyme of cellular antioxidant defense, and reduces oxidized glutathione disulfide (GSSG) to the sulfhydryl form GSH, which is an important cellular antioxidant. Rare mutations in this gene result in hereditary glutathione reductase deficiency. Multiple alternatively spliced transcript variants encoding different isoforms have been found.

#### **GSR Antibody (C-term) - References**

Satoh, N., et al. Biochem. Genet. 48 (9-10), 816-821 (2010) :  
Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)  
Wang, Y., et al. J. Hum. Genet. 55(8):490-494(2010)  
Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :  
Moyer, A.M., et al. Cancer Epidemiol. Biomarkers Prev. 19(3):811-821(2010)