

Rabbit anti-Human GSR Polyclonal Antibody | anti-GSR antibody

GSR Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA286150	Rabbit	Human	Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

GSR; Polyclonal Antibody; GSR Antibody (C-term); Glutathione reductase; mitochondrial; GR; GRase; GLUR; GRD1; anti-GSR antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
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.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/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.
Concentration	Vial Concentration: 0.33 (varies by lot)
Sequence Positions	380-408
Sequence Length	440
Applicable Applications for anti-GSR antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



FCM/FACS (Flow Cytometry)

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



IF (Immunofluorescence)

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



IHC (Immunohistochemistry)

GSR Antibody (C-term) 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.



WB (Western Blot)

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

ADDITIONAL INFORMATION

Related Product Information for anti-GSR antibody	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.
Product Categories/Family for anti-GSR antibody	Cell Biology ; Metabolism ; Signal transduction
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)

NCBI AND UNIPROT INFORMATION

NCBI GI #	50301238
NCBI GeneID	2936
NCBI Accession #	NP_000628.2 ; NP_001182031.1 ; NP_001182032.1 ; NP_001182033.1
NCBI GenBank Nucleotide #	NM_000637.3
UniProt Accession #	P00390 ; Q7Z5C9 ; Q9NP63 ; C8KIL8 ; C8KIL9 ; C8KIM0 ; D3DSV3
Molecular Weight	56257
NCBI Official Full Name	glutathione reductase, mitochondrial isoform 1
NCBI Official Synonym Full Names	glutathione reductase
NCBI Official Symbol	GSR
NCBI Official Synonym Symbols	HEL-75
NCBI Protein Information	glutathione reductase, mitochondrial
UniProt Protein Name	Glutathione reductase, mitochondrial
UniProt Gene Name	GSR
UniProt Synonym Gene Names	GLUR; GRD1; GR; GRase
UniProt Entry Name	GSHR_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

