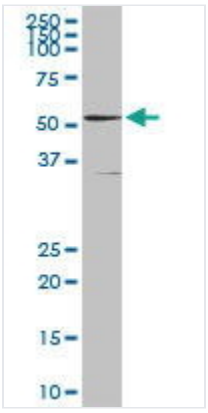
GSR Antibody – Rabbit Polyclonal

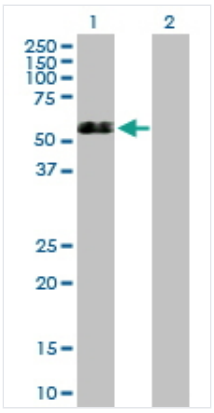
PRODUCT OVERVIEW

Product Name	GSR, Polyclonal Antibody
Full Product Name	GSR (Glutathione Reductase, Mitochondrial, GR, GRase, GSR, GLUR, GRD1, MGC78522) (Biotin)
Product Gene Name	anti-GSR antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human GSR.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor
Molecular Weight	47,267 Da
OMIM	138300
3D Structure	ModBase 3D Structure for P00390
Immunogen	Full length human GSR, aa1-522 (NP_000628.2).
Immunogen Sequence	MALLPRALSAGAGPSWRRAARAFRGFLLLLPEPAALTRALSRAMACRQEPQPQGPPPAAGAVASYDYLVIGGGSGGLASARRAAELGARAAVVESHKL
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-GSR antibody	Antibodies; Enzymes
Applications Tested/Suitable for anti-GSR antibody	Western Blot (WB)
Application Notes for anti-GSR antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-GSR antibody	Glutathione reductase (GSR or GR) is a crucial flavoenzyme in the antioxidant defense system that maintains high levels of reduced glutathione in the inhibited by a number of oxygen radical generating systems.
Other Notes	Small volumes of anti-GSR antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessa

Searchable Terms for GSR purchase	MBS6380343 is an antibody targeting GSR. Also known as GSR (Glutathione Reductase, Mitochondrial, GR, GRase, GSR, GLUR, GRD1, MGC78522



Western Blot (WB) of anti-GSR antibody
GSR rabbit polyclonal antibody. Western Blot analysis of GSR expression in human colon.



Western Blot (WB) of anti-GSR antibody
Western Blot analysis of GSR expression in transfected 293T cell line by GSR polyclonal antibody. Lane 1: GSR transfected lysate (56.3kD). Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GSR. It may not necessarily be applicable to this product.

NCBI GI #	50301238
NCBI GeneID	2936
NCBI Accession #	NP_000628.2
UniProt Primary Accession #	P00390
UniProt Secondary Accession #	Q7Z5C9; Q9NP63; C8KIL8; C8KIL9; C8KIM0; D3DSV3
UniProt Related Accession #	P00390
GenBank Nucleotide #	NM_000637.2
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
UniProt Protein Name	Glutathione reductase, mitochondrial
Protein Family	Glutathione reductase
UniProt Gene Name	GSR
UniProt Synonym Gene Names	GLUR; GRD1; GR; GRase
UniProt Entry Name	GSHR_HUMAN
NCBI Protein Information	glutathione reductase, mitochondrial; GR; GRase; epididymis luminal protein 75
NCBI Summary for GSR	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. [provided by RefSeq, Aug 2010]

UniProt Comments for GSR	GSR: a class-I pyridine nucleotide-disulfide oxidoreductase. Maintains high levels of reduced glutathione in the cytosol. Alternative initiation results in a mitochondrial and a cytoplasmic isoform. Protein type: EC 1.8.1.7; Other Amino Acids Metabolism - glutathione; Oxidoreductase Chromosomal Location of Human Ortholog: 8p21.1 Cellular Component: mitochondrial matrix; cytosol; external side of plasma membrane Molecular Function: mercury (II) reductase activity; FAD binding; electron carrier activity; mercury ion binding; NADP binding; glutathione-disulfide reductase activity Biological Process: response to reactive oxygen species; glutathione metabolic process; nucleobase, nucleoside and nucleotide interconversion; nucleobase, nucleoside and nucleotide metabolic process; cell redox homeostasis; detoxification of mercury ion
Research Articles on GSR	**1.** GSR was the most significant single SNP association with systemic lupus erythematosus in African Americans.
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