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GSR Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant GSR.
Catalog # AT2273a

Product Information

Application	WB, IHC, E
Primary Accession	P00390
Other Accession	NM_000637
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	6B4
Calculated MW	56257

Additional Information

Gene ID	2936
Other Names	Glutathione reductase, mitochondrial, GR, GRase, GSR, GLUR, GRD1
Target/Specificity	GSR (NP_000628, 413 a.a. ~ 522 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	GSR Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

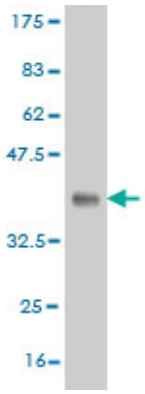
This gene encodes a member of the class-I pyridine nucleotide-disulfide oxidoreductase family. This enzyme is a homodimeric flavoprotein. It is a central enzyme of cellular antioxidant defense, and reduces oxidized glutathione disulfide (GSSG) to the sulfhydryl form GSH, which is an important cellular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

References

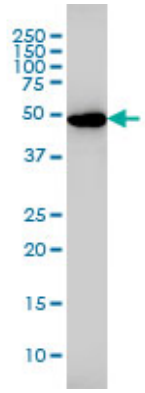
Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes

Care, 2010 Jul 13. PMID 20628086.Common polymorphisms in ITGA2, PON1 and THBS2 are associated with coronary atherosclerosis in a candidate gene association study of the Chinese Han population. Wang Y, et al. J Hum Genet, 2010 Aug. PMID 20485444.Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.Glutathione pathway genetic polymorphisms and lung cancer survival after platinum-based chemotherapy. Moyer AM, et al. Cancer Epidemiol Biomarkers Prev, 2010 Mar. PMID 20200426.Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.

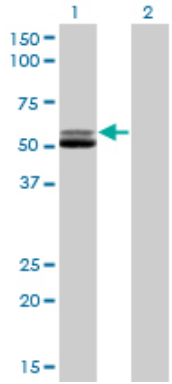
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .

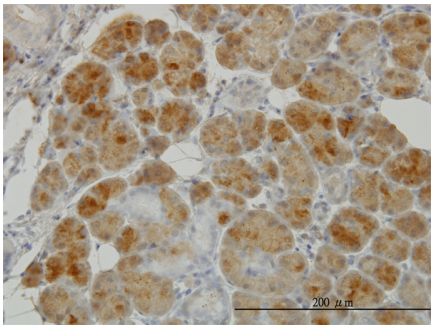


GSR monoclonal antibody (M01), clone 6B4 Western Blot analysis of GSR expression in IMR-32 ((Cat # AT2273a)

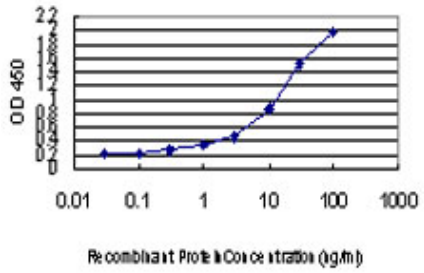


Western Blot analysis of GSR expression in transfected 293T cell line by GSR monoclonal antibody (M01), clone 6B4.

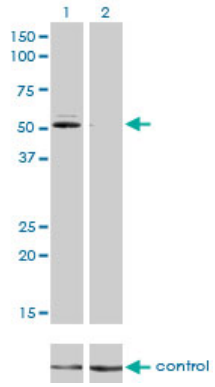
Lane 1: GSR transfected lysate(56.3 KDa).
Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to GSR on formalin-fixed paraffin-embedded human salivary gland. [antibody concentration 6 ug/ml]



Detection limit for recombinant GST tagged GSR is approximately 0.03ng/ml as a capture antibody.



Western blot analysis of GSR over-expressed 293 cell line, cotransfected with GSR Validated Chimera RNAi ((Cat # AT2273a)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.