

Product datasheet for **AM50347PU-N**

Glutathione Reductase (GSR) Mouse Monoclonal Antibody [Clone ID: AT11D10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	AT11D10
Applications:	ELISA, WB
Recommended Dilution:	The antibody has been tested by ELISA, Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended starting dilution is 1:500.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant human GSR (43-522aa) purified from E.coli.
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein-A affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	glutathione reductase
Database Link:	Entrez Gene 2936 Human P00390



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Background:

Glutathione reductase(GR) also known as glutathione-disulfide reductase(GSR) is an enzyme that in humans is encoded by the GSR gene. Glutathione reductase catalyzes the reduction of glutathione disulfide (GSSG) to the sulfhydryl form glutathione(GSH), which is a critical molecule in resisting oxidative stress and maintaining the reducing environment of the cell. Glutathione reductase functions as dimeric disulfide oxidoreductase and utilizes an FAD prosthetic group and NADPH to reduce one mole of GSSG to two moles of GSH.

Synonyms:

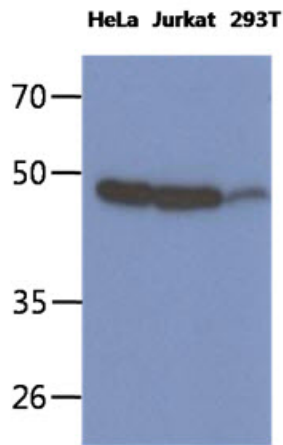
GRase, GR, GSR, GLUR, GRD1

Protein Families:

Druggable Genome

Protein Pathways:

Glutathione metabolism

Product images:

The cell lysates of HeLa, Jurkat and 293T (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human GSR antibody (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.