

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects endogenous human and mouse Glutaredoxin in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse Glutaredoxin 1 Met1-Leu107 Accession # Q9QUH0
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Glutaredoxin 1s or thioltransferases are a universally distributed family of small molecular weight proteins with thiol-disulfide exchange activity. Glutaredoxin 1 (GLRX1/GRX) is a 12 kDa protein with glutathione-disulfide oxidoreductase activity. Glutaredoxin 1s utilize the reducing power of glutathione to catalyze disulfide reductions in the presence of NADPH and glutathione reductase (the Glutaredoxin 1 system). The amino acid sequence of Glutaredoxin 1 in mouse is highly homologous with that in other mammals (81-89%), and contains the conserved active sequence motif -Cys-Pro-Try-Cys-. Glutaredoxin 1 also catalyzes the formation of mixed disulfides (glutathionylation), which is an important redox regulatory mechanism, particularly in mammalian cells under oxidative stress conditions, to sense cellular redox potential.

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