

Rabbit anti-Human Glutaredoxin 1/GLRX Polyclonal Antibody | anti-GLRX antibody

Anti-Glutaredoxin 1/GLRX Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126303	Rabbit	Human	Western Blot, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

Glutaredoxin 1/GLRX; Polyclonal Antibody; Anti-Glutaredoxin 1/GLRX Antibody Picoband; anti-GLRX antibody

PRODUCT SPECIFICATIONS

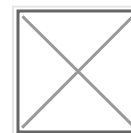
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-GLRX antibody	WB (Western Blot), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human Glutaredoxin 1/GLRX recombinant protein (Position: M1-Q106).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of HeLa cells using anti-Glutaredoxin 1/GLRX antibody (AAA126303). Overlay histogram showing HeLa cells stained with AAA126303 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Glutaredoxin 1/GLRX Antibody (AAA126303, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of Glutaredoxin 1/GLRX using anti-Glutaredoxin 1/GLRX antibody (AAA126303). Glutaredoxin 1/GLRX was detected in an immunocytochemical section of A431 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-Glutaredoxin 1/GLRX Antibody (AAA126303) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of Glutaredoxin 1/GLRX using anti-Glutaredoxin 1/GLRX antibody (AAA126303). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human U-87MG whole cell lysates, Lane 2: human PC-3 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Glutaredoxin 1/GLRX antigen affinity purified polyclonal antibody (#AAA126303) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Glutaredoxin 1/GLRX at approximately 12 kDa. The expected band size for Glutaredoxin 1/GLRX is at 12 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-GLRX antibody	Glutaredoxin-1 is a protein that in humans is encoded by the GLRX gene. This gene encodes a member of the glutaredoxin family. The encoded protein is a cytoplasmic enzyme catalyzing the reversible reduction of glutathione-protein mixed disulfides. This enzyme highly contributes to the antioxidant defense system. It is crucial for several signalling pathways by controlling the S-glutathionylation status of signalling mediators. It is involved in beta-amyloid toxicity and Alzheimer's disease. Multiple alternatively spliced transcript variants encoding the same protein have been identified.
Product Categories/Family for anti-GLRX antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	169646776
NCBI GeneID	2745
NCBI Accession #	NP_001112362.1
NCBI GenBank Nucleotide #	NM_001118890.1
UniProt Accession #	P35754; Q3KQS1; Q6ICT1; B2R4L2
Molecular Weight	11,776 Da
NCBI Official Full Name	glutaredoxin-1
NCBI Official Synonym Full Names	glutaredoxin (thioltransferase)
NCBI Official Symbol	GLRX
NCBI Official Synonym Symbols	GRX; GRX1
NCBI Protein Information	glutaredoxin-1; TTase-1; thioltransferase-1
UniProt Protein Name	Glutaredoxin-1
UniProt Gene Name	GLRX
UniProt Synonym Gene Names	GRX; TTase-1
UniProt Entry Name	GLRX1_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.

