

Rabbit GLRX3 Polyclonal Antibody | anti-GLRX3 antibody

Anti-GLRX3 Antibody Picoband

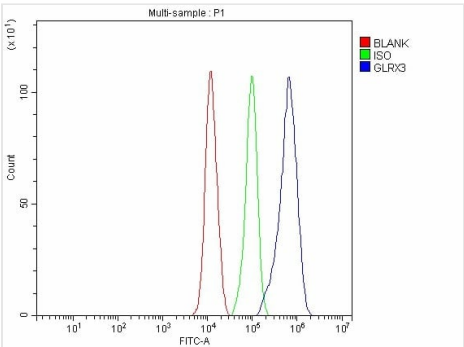
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127378	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

GLRX3; Polyclonal Antibody; Anti-GLRX3 Antibody Picoband; anti-GLRX3 antibody

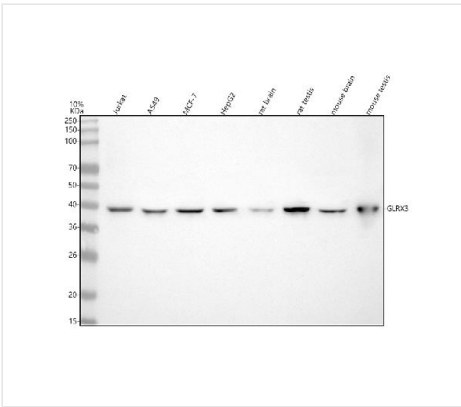
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
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 .
Applicable Applications for anti-GLRX3 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human GLRX3 recombinant protein (Position: K31-V307). Human GLRX3 shares 94.6% and 94.9% amino acid (aa) sequence identity with mouse and rat GLRX3, respectively.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	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.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of JK cells using anti-GLRX3 antibody (AAA127378).Overlay histogram showing JK cells stained with AAA127378 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-GLRX3 Antibody (AAA127378, 1ug/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 (1ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)

Figure 1. Western blot analysis of GLRX3 using anti-GLRX3 antibody (AAA127378).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 Jurkat whole cell lysates,Lane 2: human A549 whole cell lysates,Lane 3: human MCF-7 whole cell lysates,Lane 4: human HepG2 whole cell lysates,Lane 5: rat brain tissue lysates,Lane 6: rat testis tissue lysates,Lane 7: mouse brain tissue lysates,Lane 8: mouse testis tissue 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-GLRX3 antigen affinity purified polyclonal antibody (#AAA127378) at 0.5ug/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 GLRX3 at approximately 40 kDa. The expected band size for GLRX3 is at 37 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-GLRX3 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-GLRX3 antibody	Primary Antibodies
References	1. Hartz, P. A. Personal Communication. Baltimore, Md. 4/22/2009.2. Haunhorst, P., Hanschmann, E.-M., Brautigam, L., Stehling, O., Hoffmann, B., Muhlenhoff, U., Lill, R., Berndt, C., Lillig, C. H. Crucial function of vertebrate glutaredoxin 3 (PICOT) in iron homeostasis and hemoglobin maturation. Molec. Biol. Cell 24: 1895-1903, 2013.3. Jeong, D., Kim, J. M., Cha, H., Oh, J. G., Park, J., Yun, S.-H., Ju, E.-S., Jeon, E.-S., Hajjar, R. J., Park, W. J. PICOT attenuates cardiac hypertrophy by disrupting calcineurin-NFAT signaling. Circ. Res. 102: 711-719, 2008.

NCBI AND UNIPROT INFORMATION

NCBI GI #	37087933
NCBI GeneID	10539
UniProt Accession #	O76003; Q5JV01; Q96CE0; Q9P1B0; Q9P1B1; B3KMP7; B3KMQ5; D3DRG2
Molecular Weight	335
NCBI Official Full Name	Glutaredoxin-3
NCBI Official Synonym Full Names	glutaredoxin 3
NCBI Official Symbol	GLRX3
NCBI Official Synonym Symbols	GRX3; GRX4; GLRX4; PICOT; TXNL2; TXNL3

NCBI Protein Information	glutaredoxin-3; glutaredoxin 4; PKCq-interacting protein; thioredoxin-like protein 2; PKC-theta-interacting protein; PKC-interacting cousin of thioredoxin
UniProt Protein Name	Glutaredoxin-3
UniProt Gene Name	GLRX3
UniProt Synonym Gene Names	PICOT; TXNL2; PICOT; PKCq-interacting protein
UniProt Entry Name	GLRX3_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/glrx3-antibody-flow-cytometry-western-blot-elisa/127378>