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KD-Validated Anti-Glutaredoxin 3 Mouse Monoclonal Antibody

Mouse monoclonal antibody
Catalog # AGI2069

Specification

KD-Validated Anti-Glutaredoxin 3 Mouse Monoclonal Antibody - Product Information

Application	**WB**
Primary Accession	O76003
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**Mouse IgG2a**
Calculated MW	**Predicted, 37 kDa, observed, 38 kDa KDa**
Gene Name	**GLRX3**
Aliases	**GLRX3; Glutaredoxin 3; PICOT; GLRX4; TXNL2; GRX3; GRX4; PKC-Interacting Cousin Of Thioredoxin; PKC-Theta-Interacting Protein; Thioredoxin-Like Protein 2; PKCq-Interacting Protein; Glutaredoxin 4; Glutaredoxin-3; BA500G10.4; Testicular Tissue Protein Li 75; Thioredoxin-Like 2; TXNL3**
Immunogen	**Recombinant protein of human GLRX3**

KD-Validated Anti-Glutaredoxin 3 Mouse Monoclonal Antibody - Additional Information

Gene ID	**10539**

Other Names
Glutaredoxin-3, PKC-interacting cousin of thioredoxin, PICOT, PKC-theta-interacting protein, PKCq-interacting protein, Thioredoxin-like protein 2, GLRX3, PICOT {ECO:0000303|PubMed:10636891}, TXNL2

KD-Validated Anti-Glutaredoxin 3 Mouse Monoclonal Antibody - Protein Information

Name GLRX3

Synonyms PICOT {ECO:0000303|PubMed:10636891}, TXN

Function
Together with BOLA2, acts as a cytosolic iron-sulfur (Fe-S) cluster assembly factor that facilitates [2Fe-2S] cluster insertion into a subset of cytosolic proteins (PubMed:26613676, PubMed:27519415). Acts as a critical negative regulator of cardiac hypertrophy and a positive inotropic regulator (By similarity). Required for hemoglobin maturation (PubMed:23615448). Does not possess any thyoredoxin activity since it lacks the conserved motif that is essential for catalytic activity.

Cellular Location
Cytoplasm, cytosol. Cytoplasm, cell cortex. Cytoplasm, myofibril, sarcomere, Z line {ECO:0000250|UniProtKB:Q9CQM9}. Note=Under the plasma membrane (By similarity). After PMA stimulation, GLRX3 and PRKCQ/PKC-theta translocate to a more extended submembrane area (By similarity). In the Z line, found associated with CSRP3 (By similarity). {ECO:0000250|UniProtKB:Q9CQM9}

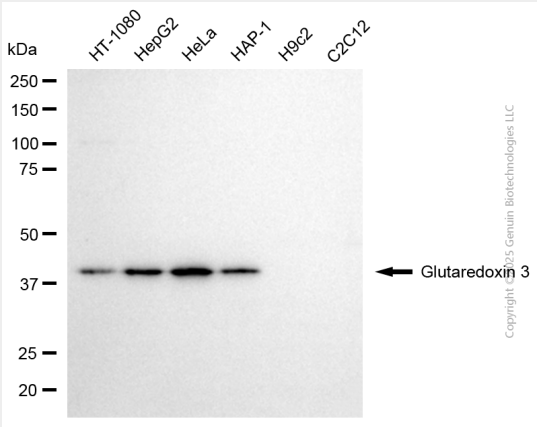
Tissue Location
Expressed in heart, spleen, testis and, to a lower extent, in thymus and peripheral blood leukocytes. Weakly expressed in lung, placenta, colon and small intestine

KD-Validated Anti-Glutaredoxin 3 Mouse Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Glutaredoxin 3 Mouse Monoclonal Antibody - Images



Western blotting analysis using anti-glutaredoxin 3 antibody (Cat#AGI2069). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-glutaredoxin 3 antibody (Cat#AGI2069, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.

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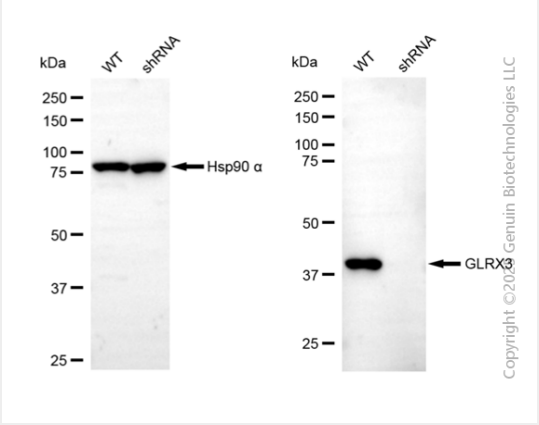

Western blotting analysis using anti-glutaredoxin 3 antibody (Cat#AGI2069). Glutaredoxin 3 expression in wild-type (WT) and glutaredoxin 3 (GLRX3) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-glutaredoxin 3 antibody (Cat#AGI2069, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.