

# KD-Validated Anti-Glutaredoxin 3 Mouse Monoclonal Antibody

Mouse monoclonal antibody  
Catalog # AGI2069

## Product Information

|                   |                                                                                                                                                                                                                                                                                            |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application       | WB                                                                                                                                                                                                                                                                                         |
| Primary Accession | <a href="#">O76003</a>                                                                                                                                                                                                                                                                     |
| Reactivity        | Human                                                                                                                                                                                                                                                                                      |
| Clonality         | Monoclonal                                                                                                                                                                                                                                                                                 |
| Isotype           | Mouse IgG2a                                                                                                                                                                                                                                                                                |
| Clone Names       | 24GB13145                                                                                                                                                                                                                                                                                  |
| Calculated MW     | 37432                                                                                                                                                                                                                                                                                      |
| 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                                                                                                                                                                                                                                                         |

## 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 |

## 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: <a href="#">26613676</a> , PubMed: <a href="#">27519415</a> ). Acts as a critical negative regulator of cardiac hypertrophy and a positive inotropic regulator (By similarity). Required for hemoglobin maturation (PubMed: <a href="#">23615448</a> ). Does not possess any thioredoxin 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

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